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UAR I Research Report No. 4

NORMAL AND OBLIQUE SHOCK WAVE PARAMETERS FOR VARIOUS DISSOCIATED UPSTREAM CONDITIONS IN AIR WITH FROZEN COMPOSITION ACROSS THE SHOCK

FACILITY FORM 602

N64-28753 (ACCESSION NUMBER)

259 (PAGES)

CR-58498 (NASA CR OR TMX OR AD NUMBER)

1 (THRU)

(CODE)

11 (CATEGORY)

by

Janardanarao Yalamanchili
Jurgen Thoenes

This research work was supported by the National Aeronautics and Space Administration under the research grant NsG-381

UNPUBLISHED PRELIMINARY DATA

UNIVERSITY OF ALABAMA RESEARCH INSTITUTE
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JULY 1964

OTS PRICE

XEROX $ 16.52ph

MICROFILM $ _____

REPORTS CONTROL No. 7

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FOREWORD

This study was supported by the research grant NsG-381, entitled "Research in the Aerospace Physical Sciences," awarded by the Director, Grants and Research Contracts, Office of Space Sciences, National Aeronautics and Space Administration.

The investigation was carried out under the direction of Dr. Rudolf Hermann, Director of the University of Alabama Research Institute, Huntsville, Alabama.

The numerical calculations were done by Miss Sylvia Bowers at the Aeroballistics Division of the George C. Marshall Space Flight Center, National Aeronautics and Space Administration, Huntsville, Alabama. A GE-225 computer was used.

ABSTRACT

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Shock transition conditions are presented which are applicable to normal and oblique shocks in air within the range of oxygen dissociation. It is assumed that the chemical composition of the air is frozen across the shock. The molecular vibrations are assumed to be in equilibrium.

Results are given for free stream velocities from $U_1 = 800$ to 6000 m/sec, free stream static temperatures from $T_1 = 100$ to 1000 °K, and for selected values of free stream oxygen dissociation.

Author

TABLE OF CONTENTS

Foreword	I
Abstract	II
Contents	III
Nomenclature	VI
1. Introduction	1
2. Shock Calculations	1
2.1. Basic Assumptions	1
2.2. Basic Equations	2
2.3. Shock Parameters	5
2.4. Downstream Stagnation Point Conditions	6
3. Oblique Shock Relations	8
4. Discussion of Results	9
5. Conclusions	11
References	

IV

ILLUSTRATIONS

Figure

1 Effect of upstream dissociation on the density ratio across a normal shock for temperatures T_1 = 100, 500, 1000 °K.

2 Effect of upstream dissociation on the temperature ratio across a normal shock for T_1 = 100 °K.

3 Effect of upstream dissociation on the temperature ratio across a normal shock for T_1 = 500 °K.

4 Effect of upstream dissociation on the temperature ratio across a normal shock for T_1 = 1000 °K.

5 Effect of upstream dissociation on the static pressure ratio across a normal shock for T_1 = 100 °K.

6 Effect of upstream dissociation on the static pressure ratio across a normal shock for T_1 = 500 °K.

7 Effect of upstream dissociation on the static pressure ratio across a normal shock for T_1 = 1000 °K.

8 Effect of upstream dissociation on the enthalpy ratio across a normal shock for T_1 = 100 °K.

9 Effect of upstream dissociation on the enthalpy ratio across a normal shock for T_1 = 500 °K.

10 Effect of upstream dissociation on the enthalpy ratio across a normal shock for T_1 = 1000 °K.

11 Effect of upstream dissociation on the entropy increase across a normal shock for T_1 = 100, 500, 1000 °K.

12 Effect of upstream dissociation on the total pressure ratio across a normal shock for T_1 = 100, 500, 1000 °K.

13 Effect of upstream dissociation on the compression from behind the shock to the stagnation point for T_1 = 100, 500, 1000 °K.

14 Temperature behind a normal shock for various free stream conditions.

15 Enthalpy behind a normal shock for various free stream conditions.

16 Effect of normal velocity and upstream dissociation on the oblique shock angle for $T_1 = 100\ ^{o}K$.

17 Effect of normal velocity and upstream dissociation on the oblique shock angle for $T_1 = 500\ ^{o}K$.

18 Effect of normal velocity and upstream dissociation on the oblique shock angle for $T_1 = 1000\ ^{o}K$.

19 Effect of upstream dissociation on the oblique shock angle for $T_1 = 100\ ^{o}K$ and $U_{n1} = 1000$ m/sec.

20 Effect of upstream dissociation on the oblique shock angle for $T_1 = 100\ ^{o}K$ and $U_{n1} = 2000$ m/sec.

21 Effect of upstream dissociation on the oblique shock angle for $T_1 = 100\ ^{o}K$ and $U_{n1} = 6000$ m/sec.

22 Effect of upstream dissociation on the oblique shock angle for $T_1 = 500\ ^{o}K$ and $U_{n1} = 1000$ m/sec.

23 Effect of upstream dissociation on the oblique shock angle for $T_1 = 500\ ^{o}K$ and $U_{n1} = 2000$ m/sec.

24 Effect of upstream dissociation on the oblique shock angle for $T_1 = 500\ ^{o}K$ and $U_{n1} = 6000$ m/sec.

25 Effect of upstream dissociation on the oblique shock angle for $T_1 = 1000\ ^{o}K$ and $U_{n1} = 1000$ m/sec.

26 Effect of upstream dissociation on the oblique shock angle for $T_1 = 1000\ ^{o}K$ and $U_{n1} = 2000$ m/sec.

27 Effect of upstream dissociation on the oblique shock angle for $T_1 = 1000\ ^{o}K$ and $U_{n1} = 6000$ m/sec.

28 Comparison of frozen flow across the shock and equilibrium flow behind the shock for $T_1 = 218\ ^{o}K$ (100,000 ft. altitude).

TABLES

Normal and Oblique Shock Parameters

NOMENCLATURE*

D'	Dissociation energy of oxygen [°K]
e	Internal energy [J/kg]
h	Enthalpy [J/kg]
n	Number of particles
P	Pressure [N/m^2]
R	Gas constant of undissociated air [J/kg °K]
S	Specific entropy [J/kg °K]
T	Temperature [°K]
U	Velocity [m/s]
Z	Compressibility factor
α	Degree of oxygen dissociation
δ	Flow deflection angle behind oblique shock
θ	Characteristic vibrational temperature [°K]
ρ	Density [kg/m^3]
σ	Oblique shock angle

Subscripts

1	Free stream
2	Behind the shock
n	Normal component
o	Arbitrary reference state (used in eq. (12) only)

* Units conform with those given in Ref. 20.

t Stagnation conditions, also tangential component

N2 Nitrogen

O2 Oxygen

Numerical Values Entering Calculations

$D' = 59\,366$ [°K]*

$R = 287.05$ [J/kg °K = m^2/sec^2 °K]**

$\theta_{O2} = 2270$ [°K]***

$\theta_{N2} = 3390$ [°K]***

$$\frac{n_{O2}}{n_{O2} + n_{N2}} = 0.2115^*$$

* Ref. 17
** Ref. 18
*** Ref. 19

1. Introduction

A number of reports have been published for normal and oblique shock waves at hypersonic speeds, considering various atmospheric conditions and real gas effects behind the shock (Ref. 1 - 8). Altitudes where dissociation in the atmosphere becomes significant were not considered. On the other hand, it has been found that the high temperature flow of air in a hypersonic wind tunnel freezes immediately downstream of the throat (Ref. 9 - 14). Hence, for any shocks occurring in a hypersonic wind tunnel test section the "free stream" conditions may be essentially different from the conditions met in free flight within an altitude range where the air is not dissociated. The purpose of this investigation is therefore to determine shock transistion conditions for normal and oblique shocks in dissociated flows for a certain range of the following variables: frozen free stream oxygen dissociation $\alpha = 0$ to 1.0; free stream static temperature $T_1 = 100$ to 1000 °K; free stream normal velocity $U_{n1} = 800$ to 6000 m/sec. The results are equally applicable to determine normal and oblique shock parameters for free flight conditions.

The results are presented in the form of tables and graphs of the shock wave parameters U_{n2}/U_{n1}, ρ_2/ρ_1, T_2/T_1, P_2/P_1, h_2/h_1, $(S_2 - S_1)/R$, P_{t2}/P_{t1}, $(P_{t2} - P_2)/P_1$, for various values of α and T_1 at various values of U_{n1}.

Charts for the variation of the shock wave angle with the flow deflection angle are also given. These results are compared with results given in Ref. 6 for an altitude of 100,000 ft.

2. Shock Calculations

2.1. Basic Assumptions

a) The flow is uniform and steady.

b) The free stream oxygen dissociation is frozen, the molecular vibrations are in equilibrium across the shock.

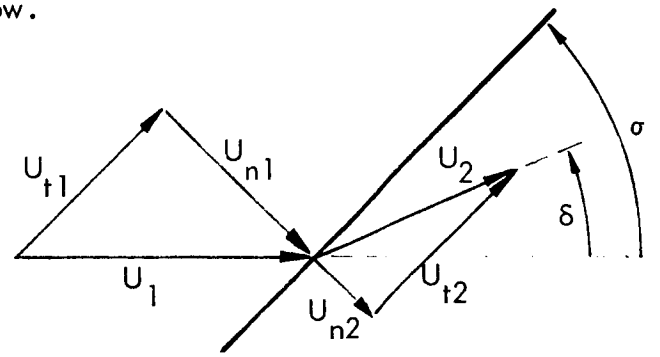
c) The calculations are restricted to a range of temperatures and pressures in which there is only oxygen dissociation of air.

d) The calculations are based on a simplified air model, consisting of atomic oxygen, molecular oxygen and molecular nitrogen (i.e. O, O_2 and N_2) only.

e) Viscosity, heat conduction and radiation are neglected.

2.2 Basic Equations

The notation used for all velocity components involved is given in the figure below.



Conservation of mass

$$\rho_1 U_{n1} = \rho_2 U_{n2} \tag{1}$$

Conservation of momentum

$$U_{t1} = U_{t2} \tag{2}$$

$$\rho_1 U_{n1}^2 + P_1 = \rho_2 U_{n2}^2 + P_2 \tag{3}$$

Conservation of energy, and using eq. (2),

$$\frac{1}{2} U_{n1}^2 + h_1 = \frac{1}{2} U_{n2}^2 + h_2 \tag{4}$$

Equation of state

$$P = \rho R Z T \tag{5}$$

where

$$Z = 1 + \frac{n_{O2}}{n_{O2} + n_{N2}} \alpha \tag{6}$$

The enthalpy can generally be written as

$$h = e + \frac{P}{\rho} \tag{7}$$

where e is the internal energy. Expressing the internal energy of the particle mixture in terms of partition functions, the following expression is obtained for the enthalpy:

$$h = R\left\{ 3 \frac{n_{O2}\,\alpha}{n_{O2} + n_{N2}} T + \frac{(1-\alpha) n_{O2}}{n_{O2} + n_{N2}} \left[\frac{5}{2} T + \frac{\theta_{O2}}{e^{\theta_{O2}/T} - 1} \right] \right.$$

$$\left. + \left(1 - \frac{n_{O2}}{n_{O2} + n_{N2}}\right) \left[\frac{5}{2} T + \frac{\theta_{N2}}{e^{\theta_{N2}/T} - 1} \right] + \frac{n_{O2}\,\alpha}{n_{O2} + n_{N2}} D' + \left(1 + \frac{n_{O2}\,\alpha}{n_{O2} + n_{N2}}\right) T \right\} \tag{8}$$

The detailed derivation of the above expression is given in Ref. 14. If numerically evaluated, the expression reads as follows (T in ^{o}K):

$$h = 10^3(3604.17\alpha + 0.09107\alpha T + 1.0045T + \frac{137.814(1-\alpha)}{e^{2270/T}-1} + \frac{767.285}{e^{3390/T}-1}) \left[\frac{J}{kg}\right] \tag{9}$$

From the definition of the entropy and using the first law of thermodynamics, the change of entropy dS may be written for any medium as

$$dS = \frac{dh - \frac{1}{\rho} dP}{T} \tag{10}$$

Eq. (10) defines the entropy as a variable of state. Knowing the thermodynamic coordinates of two states, their entropy difference may be calculated from eq. (10). According to the second law this difference is zero for an adiabatic reversible process, and positive for an irreversible process.

For chemically frozen flow with vibrations in equilibrium the enthalpy is a function of the temperature only. Integration of the above equation furnishes then the entropy difference between any two states as follows:

$$\Delta S = \int \left(\frac{\partial h}{\partial T}\right)_\alpha \frac{dT}{T} - RZ \int \frac{dP}{P} \tag{11}$$

Using the enthalpy equation and the equation of state, we finally arrive at

$$\frac{S - S_o}{R} = \frac{1}{2}(5 + \frac{n_{O2}\,\alpha}{n_{O2} + n_{N2}}) \ln \frac{T}{T_o} - (1 + \frac{n_{O2}\,\alpha}{n_{O2} + n_{N2}}) \ln \frac{\rho}{\rho_o} + \frac{(1-\alpha)n_{O2}}{n_{O2} + n_{N2}} \left[\frac{\theta_{O2}/T}{e^{\theta_{O2}/T} - 1} \right.$$

$$\left. - \frac{\theta_{O2}/T_o}{e^{\theta_{O2}/T_o} - 1} - \ln(1 - e^{-\theta_{O2}/T}) + \ln(1 - e^{-\theta_{O2}/T_o}) \right] + (1 - \frac{n_{O2}}{n_{O2} + n_{N2}}) \left[\frac{\theta_{N2}/T}{e^{\theta_{N2}/T} - 1} \right.$$

$$\left. - \frac{\theta_{N2}/T_o}{e^{\theta_{N2}/T_o} - 1} - \ln(1 - e^{-\theta_{N2}/T}) + \ln(1 - e^{-\theta_{N2}/T_o}) \right] \tag{12}$$

where the subscript o denotes an arbitrary reference state.

2.3. Shock Parameters

Using equations (1), (3), (4) and (5) it can be shown that

$$T_2 = \frac{U_{n1}}{RZ}\left(1 + \frac{RZT_1}{U_{n1}^2}\right)\sqrt{U_{n1}^2 - 2(h_2 - h_1)} - \frac{2}{RZ}\left[\frac{U_{n1}^2}{2} - (h_2 - h_1)\right] \tag{13}$$

For any given free stream conditions (i.e. T_1, a and U_{n1}) the temperature behind the shock, T_2, can now be obtained from eq. (13) and eq. (9) by solving these equations numerically.

Using the energy equation, eq. (4), the ratio of the normal velocity components across the shock is obtained as

$$\frac{U_{n2}}{U_{n1}} = \sqrt{1 - \frac{2(h_2 - h_1)}{U_{n1}^2}} \tag{14}$$

From the continuity equation, eq. (1), we get

$$\frac{\rho_2}{\rho_1} = \frac{U_{n1}}{U_{n2}} \tag{15}$$

Using the equation of state and noticing that by assumption the chemical composition is frozen across the shock, the static pressure ratio is obtained as

$$\frac{P_2}{P_1} = \frac{\rho_2}{\rho_1} \cdot \frac{T_2}{T_1} \tag{16}$$

This completes the calculations of the static conditions behind the shock.

2.4. Downstream Stagnation Point Conditions

Knowing the static conditions, in particular the temperature and the density on both sides of the shock, the entropy difference across the shock can now be obtained by applying eq. (12) across the shock. This yields

$$\frac{S_2 - S_1}{R} = 0.5(5 + 0.2115\alpha) \ln \frac{T_2}{T_1} - (1 + 0.2115\alpha) \ln \frac{\rho_2}{\rho_1}$$

$$+ 0.2115(1 - \alpha) \left[\frac{2270/T_2}{e^{2270/T_2} - 1} - \frac{2270/T_1}{e^{2270/T_1} - 1} - \ln(1 - e^{-2270/T_2}) + \ln(1 - e^{-2270/T_1}) \right]$$

$$+ 0.7885 \left[\frac{3390/T_2}{e^{3390/T_2} - 1} - \frac{3390/T_1}{e^{3390/T_1} - 1} - \ln(1 - e^{-3390/T_2}) + \ln(1 - e^{-3390/T_1}) \right] \tag{17}$$

For externally adiabatic flow the total enthalpy remains constant. Hence application of eq. (11) to the total conditions on both sides of the shock furnishes immediately

$$\Delta S = -RZ \int_{P_{t1}}^{P_{t2}} \frac{dP}{P} \tag{18}$$

Knowing the entropy difference across the shock from eq. (17) the total pressure ratio across the shock is obtained from eq. (18) as

$$\frac{P_{t2}}{P_{t1}} = e^{-(S_2 - S_1)/RZ} \tag{19}$$

Another useful parameter is the ratio of the downstream stagnation pressure to the static pressure behind the shock, indicating the compression from behind the shock to a stagnation point. In order to calculate this compression we have to know whether the considered flow is isentropic or not. For externally adiabatic flows, disregarding viscosity, heat conduction, diffusion and radiation, it was shown by Heims (Ref. 15) that, for example, both chemically frozen flow with vibrations in equilibrium and full equilibrium flow are isentropic flows.

Hence, if it is assumed that the flow downstream of the shock continues to be chemically frozen and vibrationally in equilibrium up to a stagnation point, this flow is isentropic and it follows from eq. (11) that

$$RZ \int_{P_2}^{P_{t2}} \frac{dP}{P} = \int_{T_2}^{T_{t2}} \left(\frac{\partial h}{\partial T}\right)_\alpha \frac{dT}{T} \tag{20}$$

Knowing the total enthalpy from the free stream conditions, the stagnation temperature, T_{t2}, appearing as the upper limit in the integral on the right side of the above equation, may be obtained from the enthalpy equation, eq. (9).

Eq. (20) yields the desired pressure ratio as

$$\frac{P_{t2}}{P_2} = \exp\left\{\frac{1}{Z}\left[\left(\frac{7}{2}+\frac{3}{2}\,\frac{n_{O2}\alpha}{n_{O2}+n_{N2}}\right)\ln\frac{T_{t2}}{T_2} + \frac{(1-\alpha)n_{O2}}{n_{O2}+n_{N2}}\left(\frac{\theta_{O2}/T_{t2}}{e^{\theta_{O2}/T_{t2}}-1} - \frac{\theta_{O2}/T_2}{e^{\theta_{O2}/T_2}-1} - \ln(1-e^{-\theta_{O2}/T_{t2}}) + \ln(1-e^{-\theta_{O2}/T_2})\right) + \left(1-\frac{n_{O2}}{n_{O2}+n_{N2}}\right)\right.\right.$$

$$\left.\left.\times\left(\frac{\theta_{N2}/T_{t2}}{e^{\theta_{N2}/T_{t2}}-1} - \frac{\theta_{N2}/T_2}{e^{\theta_{N2}/T_2}-1} - \ln(1-e^{-\theta_{N2}/T_{t2}}) + \ln(1-e^{-\theta_{N2}/T_2})\right)\right]\right\} \tag{21}$$

From eq. (16) and eq. (21) we then obtain

$$\frac{P_{t2} - P_2}{P_1} = \frac{P_2}{P_1} \left(\frac{P_{t2}}{P_2} - 1\right) \tag{22}$$

It is clear that the value of the ratio from eq. (22) given in the tables is meaningful for normal shocks only.

3. Oblique Shock Relations

From the geometry of the oblique shock the following relations can be obtained:

$$\tan \sigma = \frac{U_{n1}}{U_{t1}} \tag{23}$$

$$\tan (\sigma - \delta) = \frac{U_{n2}}{U_{t2}} \tag{24}$$

Eliminating the tangential velocity components according with eq. (2), the relation between σ and δ becomes

$$\tan (\sigma - \delta) = \frac{U_{n2}}{U_{n1}} \tan \sigma \tag{25}$$

and finally

$$\delta = \sigma - \tan^{-1} \left(\frac{U_{n2}}{U_{n1}} \tan \sigma\right) \tag{26}$$

Knowing U_{n2}/U_{n1} from eq. (14), the deflection angle δ may be calculated for any oblique shock angle σ from eq. (26).

4. Discussion of Results

The computation of shock transition conditions is considerably simplified due to the assumption of frozen dissociation across the shock. It should be noted that the free stream dissociation could be either equilibrium, non-equilibrium or frozen. Under this condition the enthalpy is a function of the temperature only. Then, for given free stream conditions, temperature T_1 and degree of dissociation α, the temperature behind the shock, T_2, is only a function of the normal component of the free stream velocity. It will be noted in all figures that the perfect gas case coincides with the $\alpha = 0$ case only for moderate normal free stream velocities. The deviation with increasing normal velocity is a consequence of the assumption of vibrational equilibrium in our real gas calculations.

The density ratio across the normal shock for $\alpha = 0$ and $\alpha = 1.0$ is presented in Fig. 1 for $T_1 = 100$, 500, and 1000 °K. It is interesting to note that the density ratio is considerably effected by both the free stream dissociation and the free stream static temperature.

The temperature ratio across the normal shock is presented in Figs. 2, 3 and 4. The results indicate that the temperature ratio is not sensitive to the free stream dissociation, but that it does depend on the free stream temperature.

The static pressure ratio across the normal shock is presented in Figs. 5, 6 and 7. The free stream dissociation reduces the static pressure ratio such that for $\alpha = 1.0$ its value is roughly 20% below the value for $\alpha = 0$ over the entire range of velocities.

The enthalpy ratio across the shock is presented in Figs. 8, 9 and 10. This ratio depends strongly on both the free stream dissociation and the free stream temperature.

Fig. 11 shows the influence of the free stream dissociation on the entropy increase across the shock. For a typical case of $T_1 = 500$ °K the maximum difference between $\alpha = 0$ and $\alpha = 1$ is roughly 40% (at $U_{n1} = 800$ m/s). The difference decreases with increasing free stream velocity.

Fig. 12 shows the effect of the free stream dissociation on the total pressure ratio across the shock. It is seen that this ratio is very strongly effected by free stream dissociation.

The compression from behind the shock to a stagnation point is shown in Fig. 13. While the influence of the free stream temperature is quite significant, the effect of the free stream dissociation on this ratio is so small that it does not appear in this graph.

The temperature behind the shock, T_2, and the enthalpy behind the shock, h_2, are given in Figs. 14 and 15, respectively, for various free stream conditions. The results from this report are compared with the approximate values from Ref. 14. "$T_1 = 0$" should be understood to mean the influence of the free stream temperature can be neglected below $T_1 = 100\ ^{o}K$.

As to the oblique shock curves, it should be noted that all results are presented for a constant normal component, U_{n1}, of the free stream velocity U_1. The relation between the shock angle σ and the deflection angle δ depends on the ratio of the normal components of the velocities, or on its reciprocal, the density ratio across the shock.

Shock angles and the pertaining deflection angles are presented in Figs. 16, 17 and 18 for selected free stream temperatures and normal velocities. The relation between shock angle and deflection angle depends obviously on the free stream dissociation since the density ratio does so. It should be noticed that for a given deflection angle the shock angle increases with increasing free stream dissociation.

In Figs. 19 through 27, the oblique shock data resulting from the analysis presented in this report are compared with calculations for perfect gas. These perfect gas curves were calculated from eq. (26) with the normal velocity ratio taken from Ref. 16. It can be seen from Fig. 19 that for a low free stream temperature, for a low normal velocity and for zero free stream dissociation the agreement is excellent.

Finally, Fig. 28 presents a comparison of data calculated for frozen flow across the shock with those assuming equilibrium behind the shock or perfect gas. The curves for chemical equilibrium were calculated from shock data based on atmospheric free stream conditions at 100,000 ft. altitude, presented in Ref. 6. Hence there is no free stream dissociation involved in the equilibrium flow curves.

5. Conclusions

The influence of free stream dissociation of air on normal and oblique shock parameters was investigated under the assumption that the composition does not change across the shock. The influence of such dissociation was found to be quite significant. Comparing the frozen flow analysis for zero dissociation, the equilibrium flow and the perfect gas flow, it can be seen that the agreement is very good at the relatively low normal velocity $U_{n1} = 1000$ m/sec. The agreement is not good for increasing normal velocities. Both perfect gas theory and frozen flow analysis yield in this case a larger shock angle than the equilibrium flow analysis does. This must be attributed to the difference in the temperature behind the shock which occurs due to the fact that in equilibrium there is some oxygen dissociation behind the shock while for the frozen flow and the perfect gas case the dissociation is zero by assumption.

From these results and the results given in Ref. 1, 4 and 6, it must be concluded that one should be very careful in simulating certain free flight conditions in an experimental facility.

It is hoped that the data presented in this report will be useful in calculating shock transition conditions for various environments.

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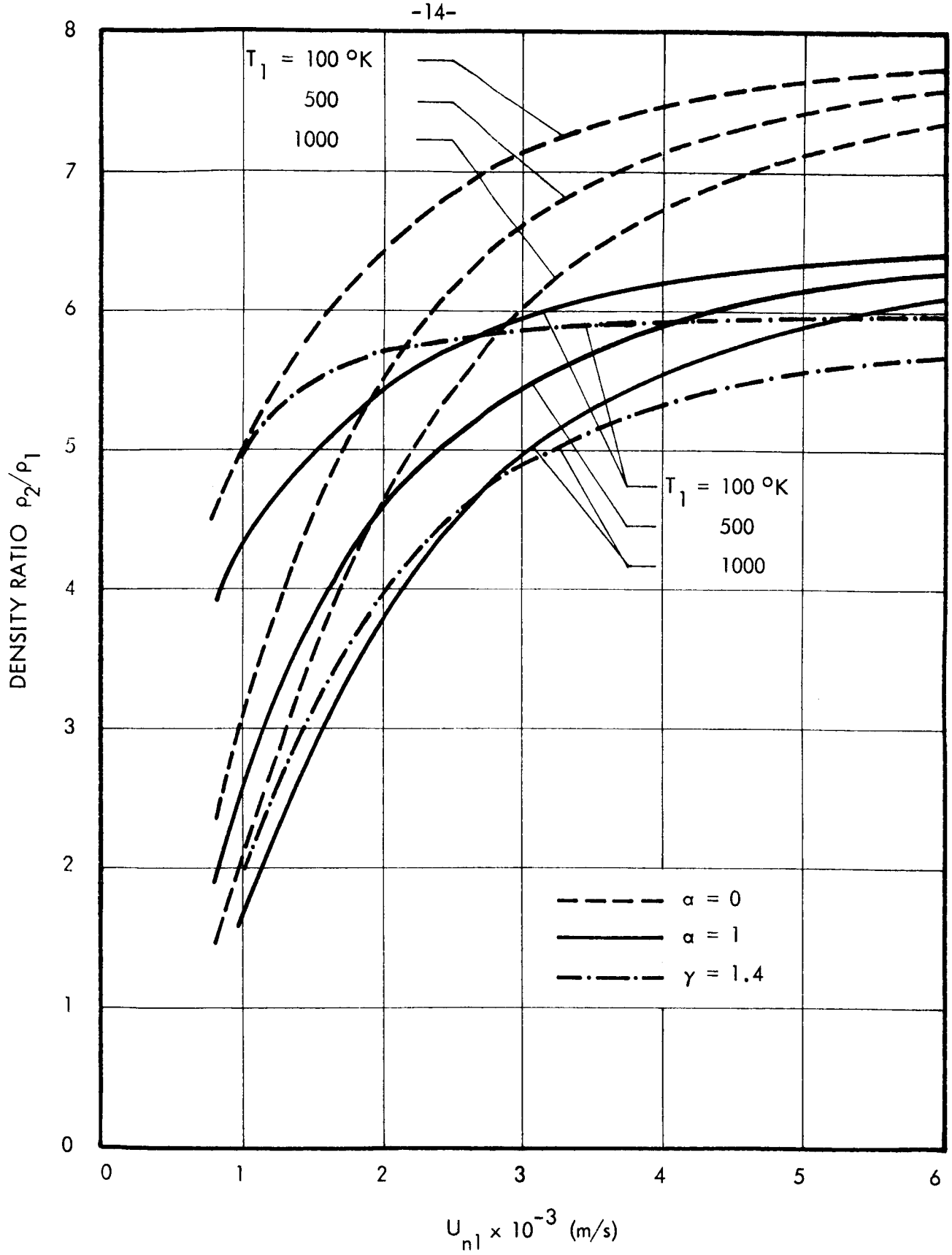

FIG. 1 EFFECT OF UPSTREAM DISSOCIATION ON THE DENSITY RATIO ACROSS A NORMAL SHOCK FOR TEMPERATURES T_1 = 100, 500, 1000 °K.

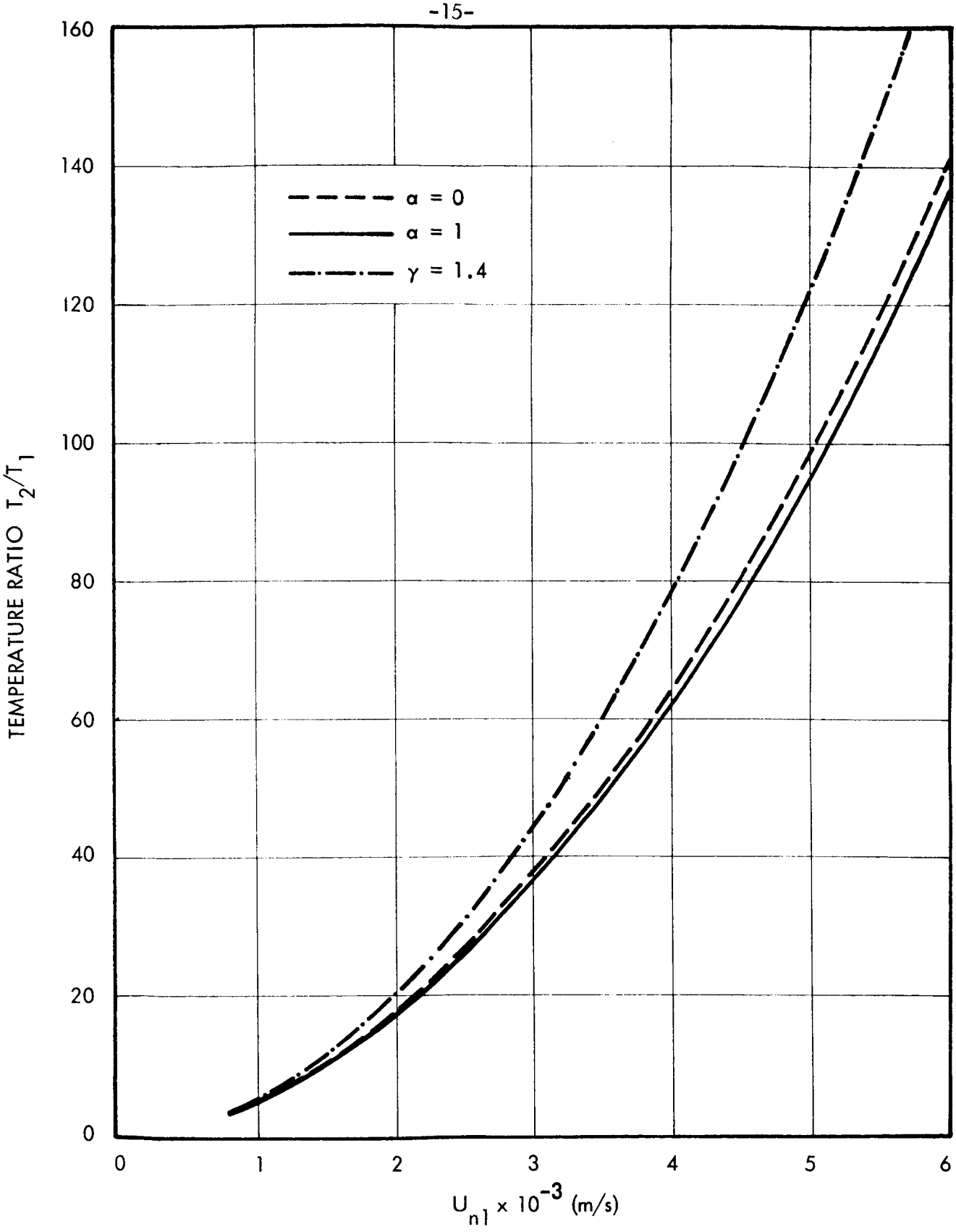

FIG. 2 EFFECT OF UPSTREAM DISSOCIATION ON THE TEMPERATURE RATIO ACROSS A NORMAL SHOCK FOR T_1 = 100 °K.

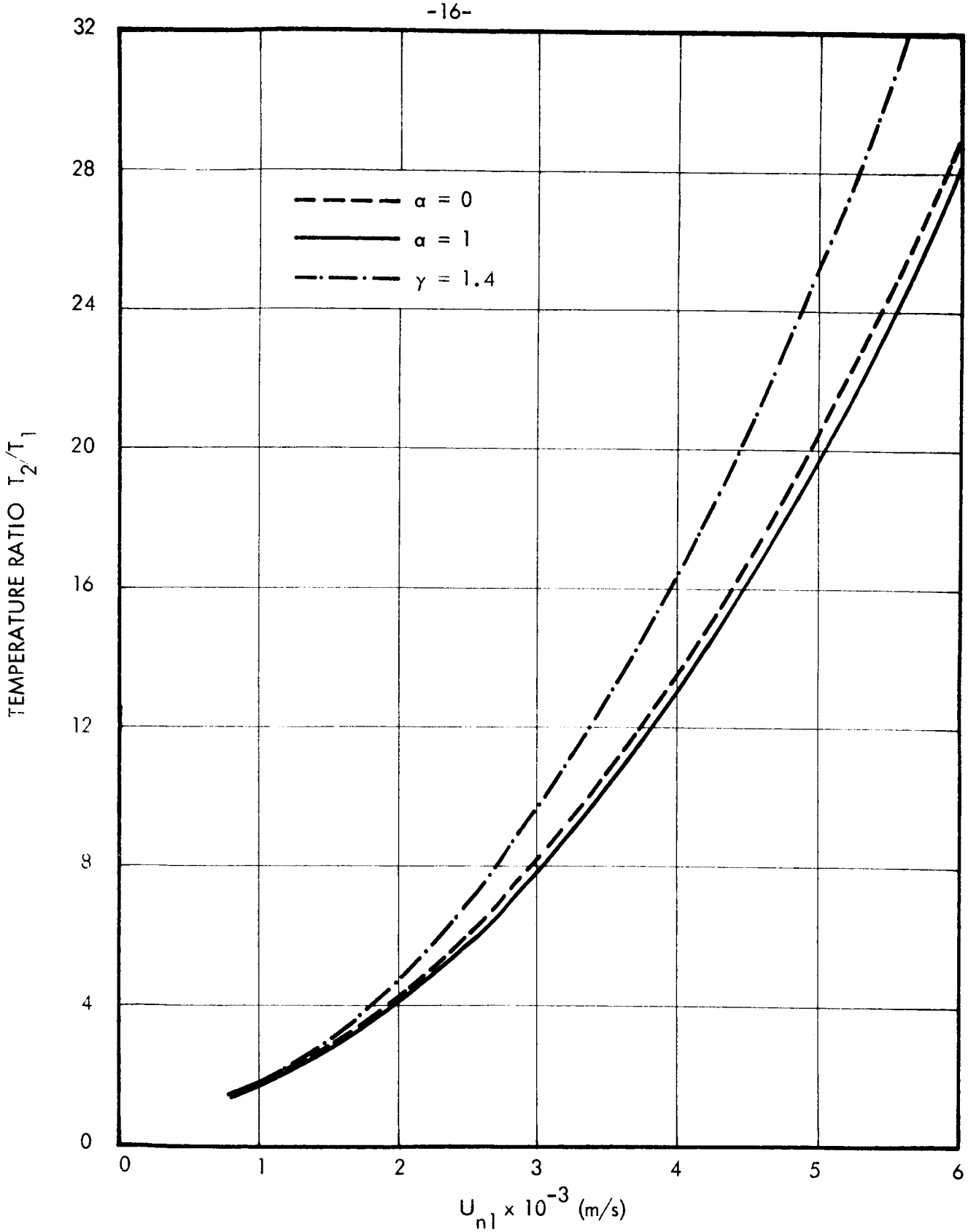

FIG. 3 EFFECT OF UPSTREAM DISSOCIATION ON THE TEMPERATURE RATIO ACROSS A NORMAL SHOCK FOR $T_1 = 500\ ^{\circ}K$.

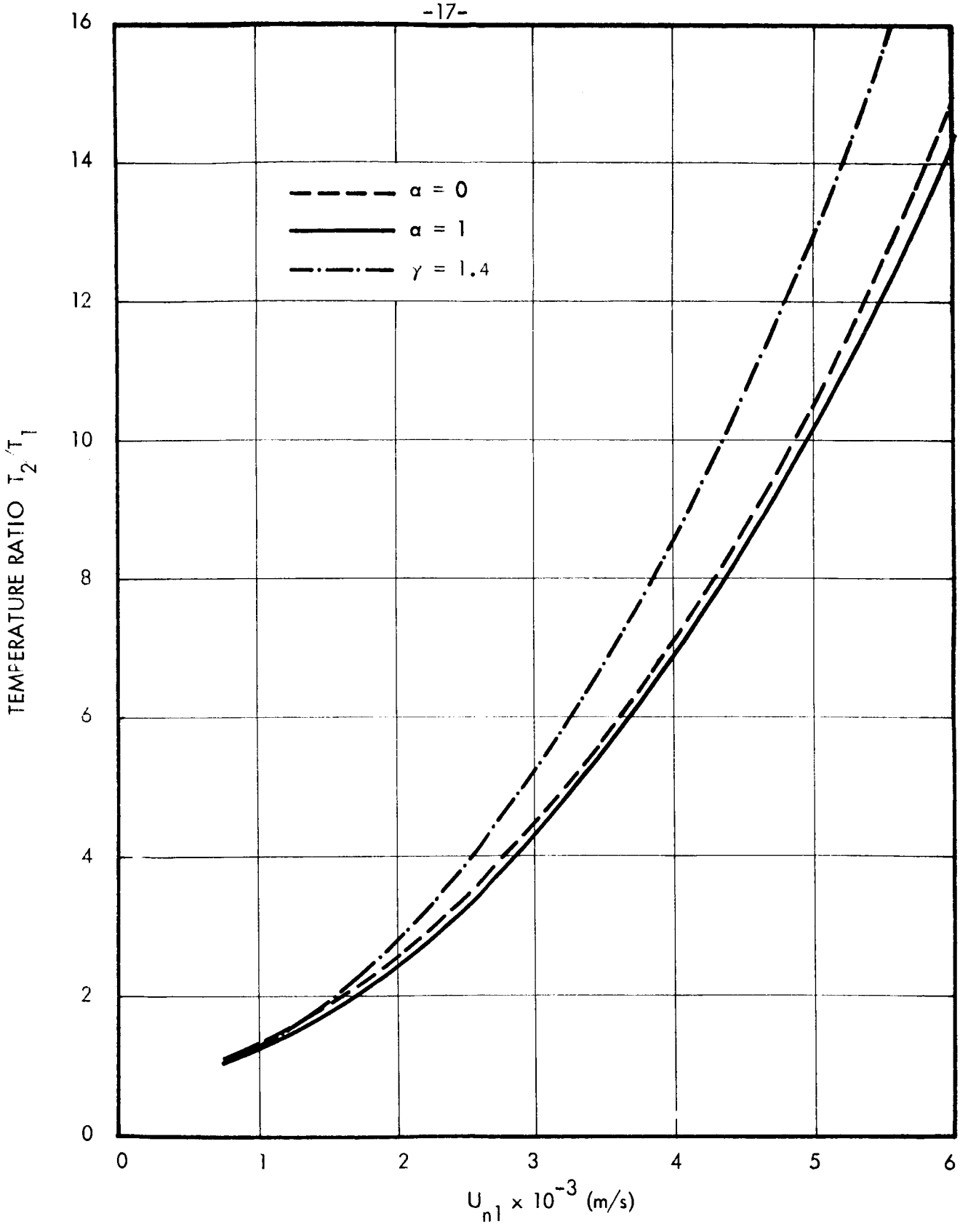

FIG. 4 EFFECT OF UPSTREAM DISSOCIATION ON THE TEMPERATURE RATIO ACROSS A NORMAL SHOCK FOR T_1 = 1000 °K.

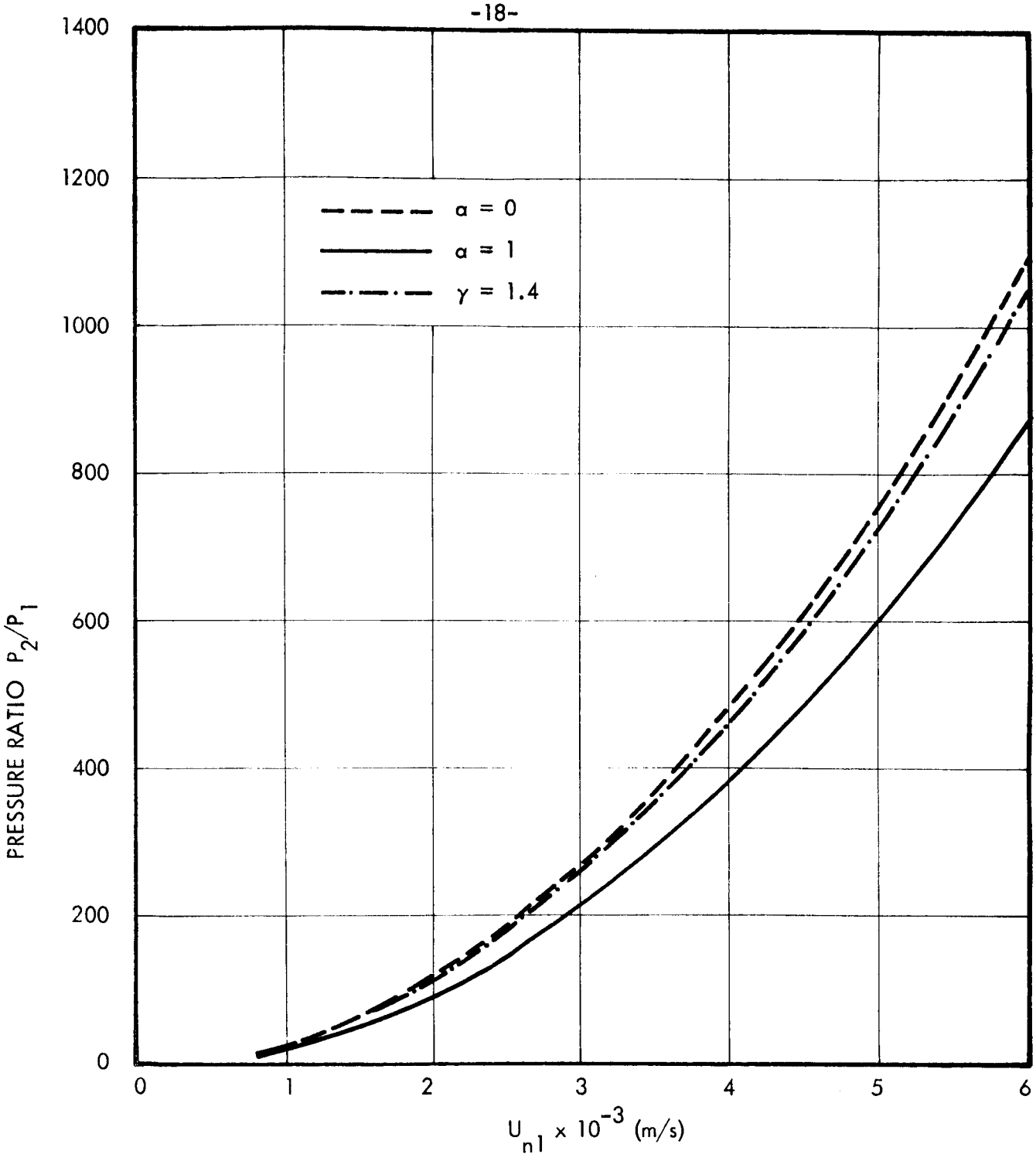

FIG. 5 EFFECT OF UPSTREAM DISSOCIATION ON THE STATIC PRESSURE RATIO ACROSS A NORMAL SHOCK FOR T_1 = 100 °K.

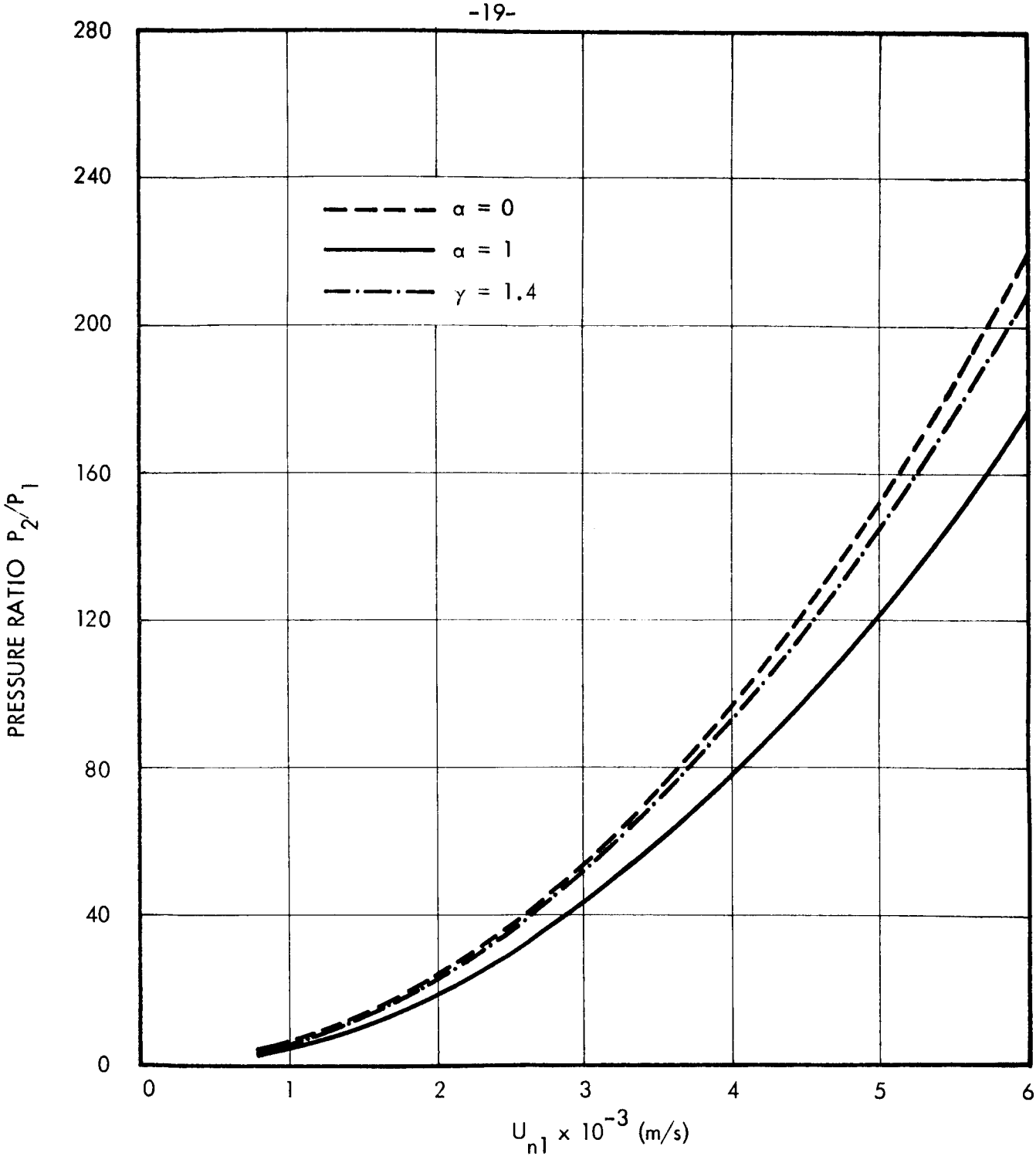

FIG. 6 EFFECT OF UPSTREAM DISSOCIATION ON THE STATIC PRESSURE RATIO ACROSS A NORMAL SHOCK FOR T_1 = 500 °K.

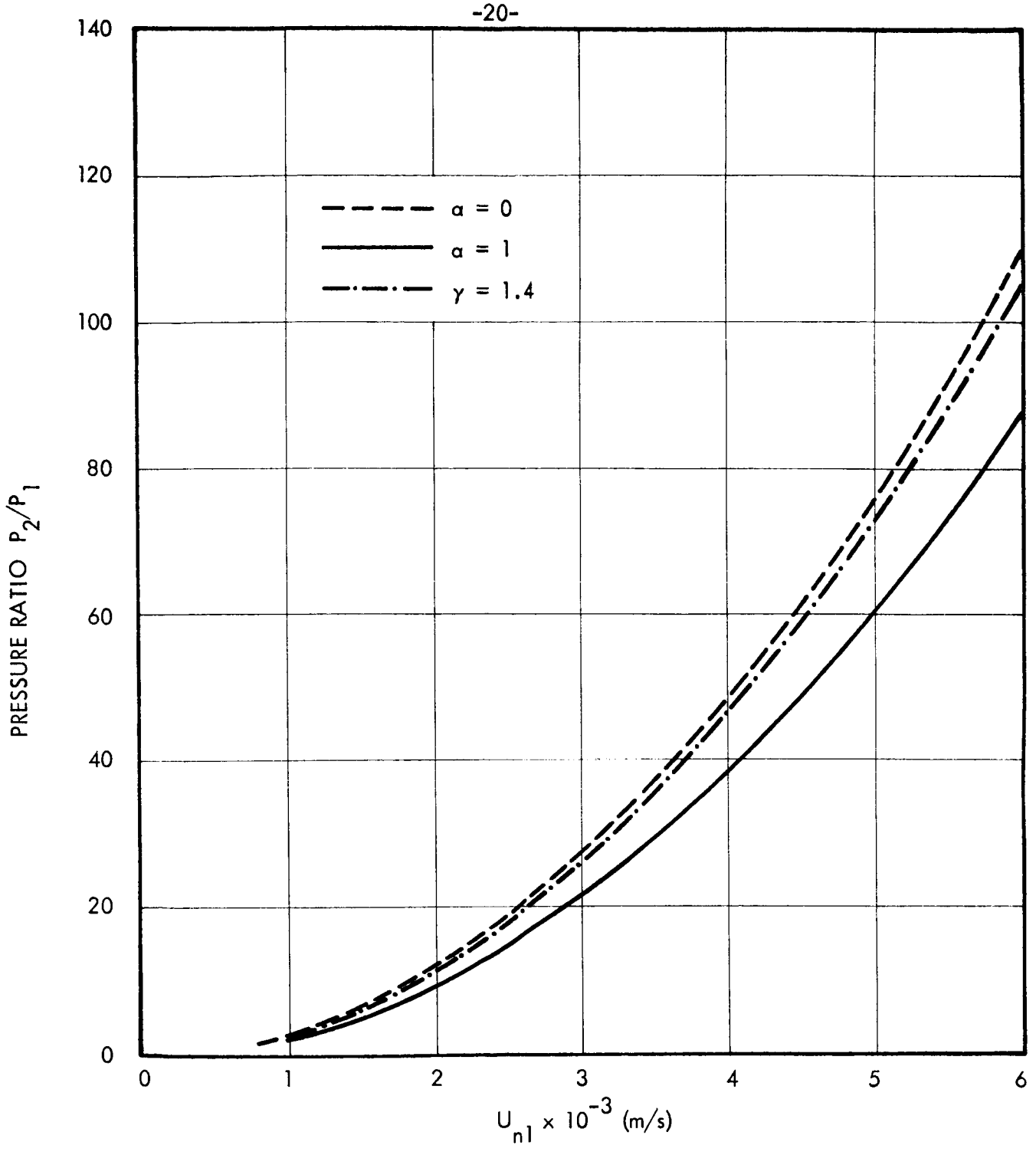

FIG. 7 EFFECT OF UPSTREAM DISSOCIATION ON THE STATIC PRESSURE RATIO ACROSS A NORMAL SHOCK FOR T_1 = 1000 °K.

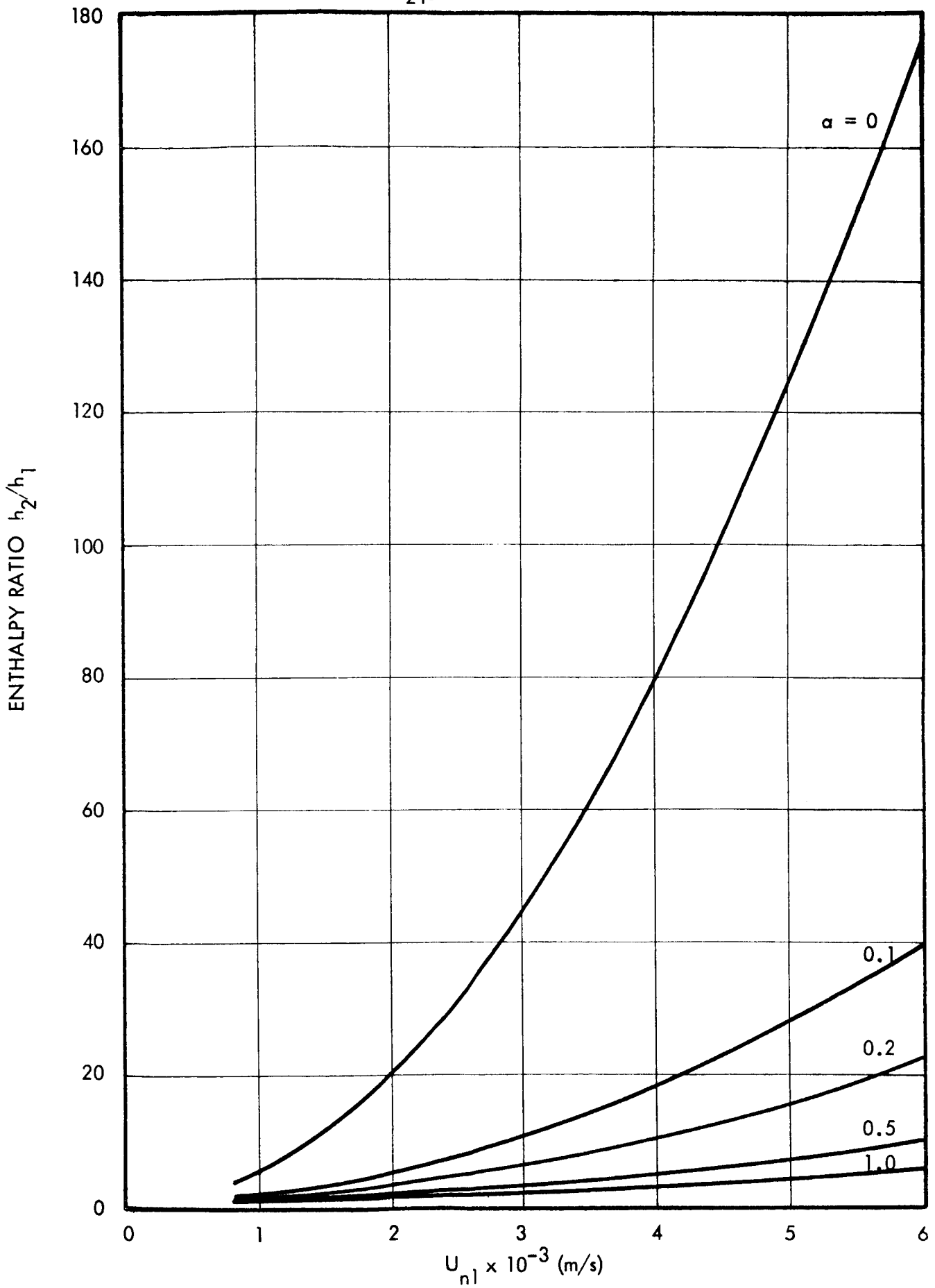

FIG. 8 EFFECT OF UPSTREAM DISSOCIATION ON THE ENTHALPY RATIO ACROSS A NORMAL SHOCK FOR T_1 = 100 °K.

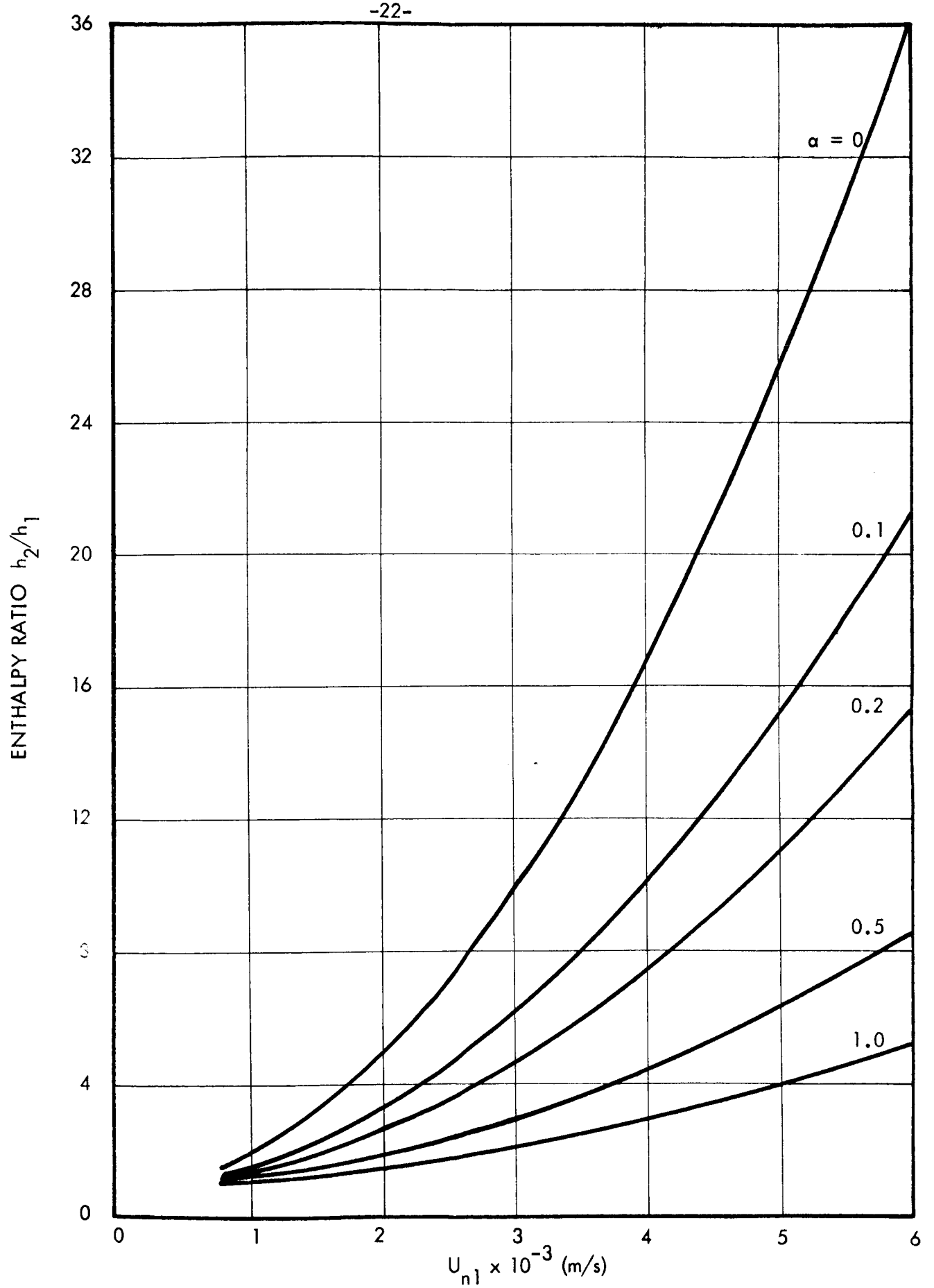

FIG. 9 EFFECT OF UPSTREAM DISSOCIATION ON THE ENTHALPY RATIO ACROSS A NORMAL SHOCK FOR T_1 = 500 °K.

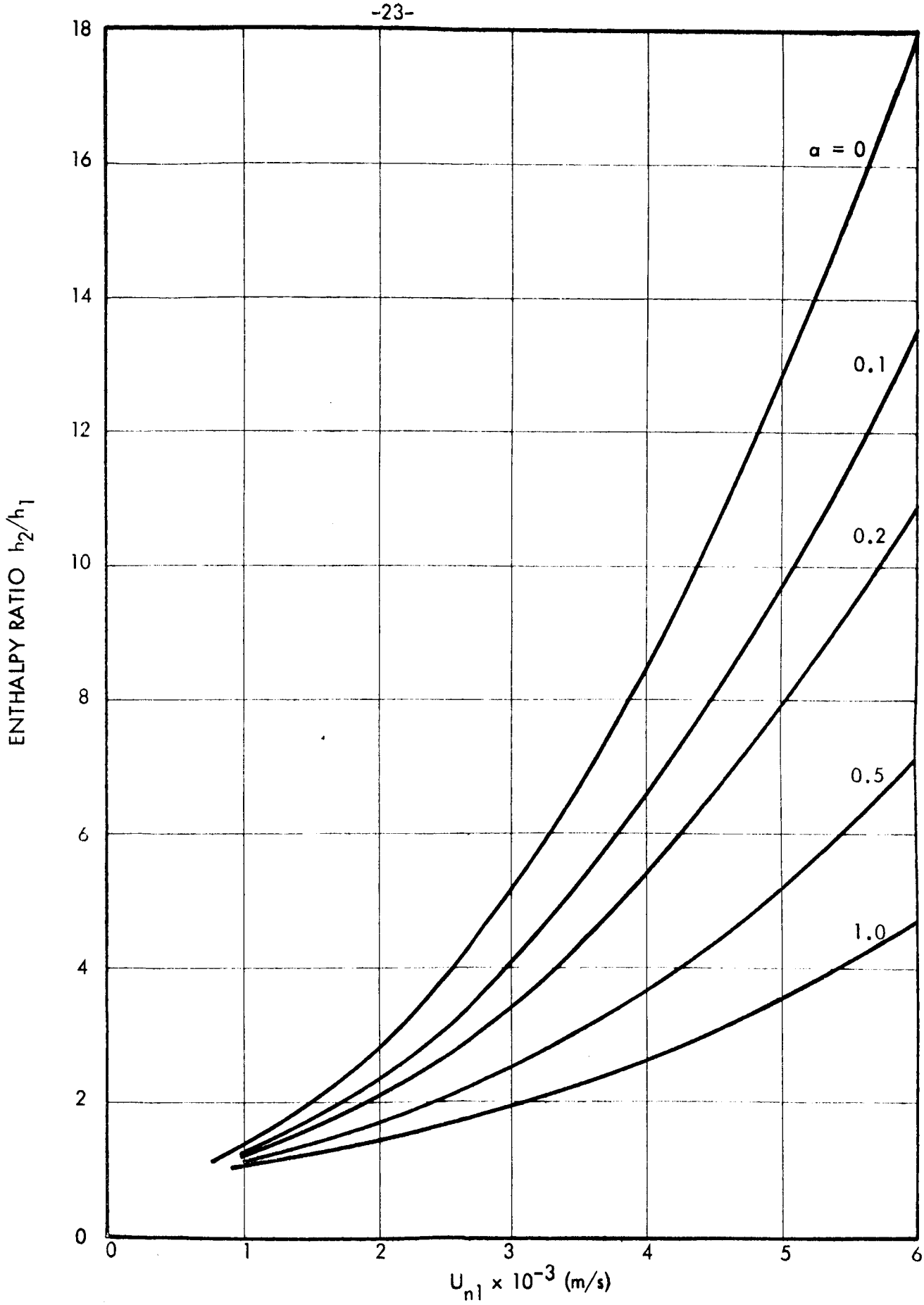

FIG. 10 EFFECT OF UPSTREAM DISSOCIATION ON THE ENTHALPY RATIO ACROSS A NORMAL SHOCK FOR T_1 = 1000 °K.

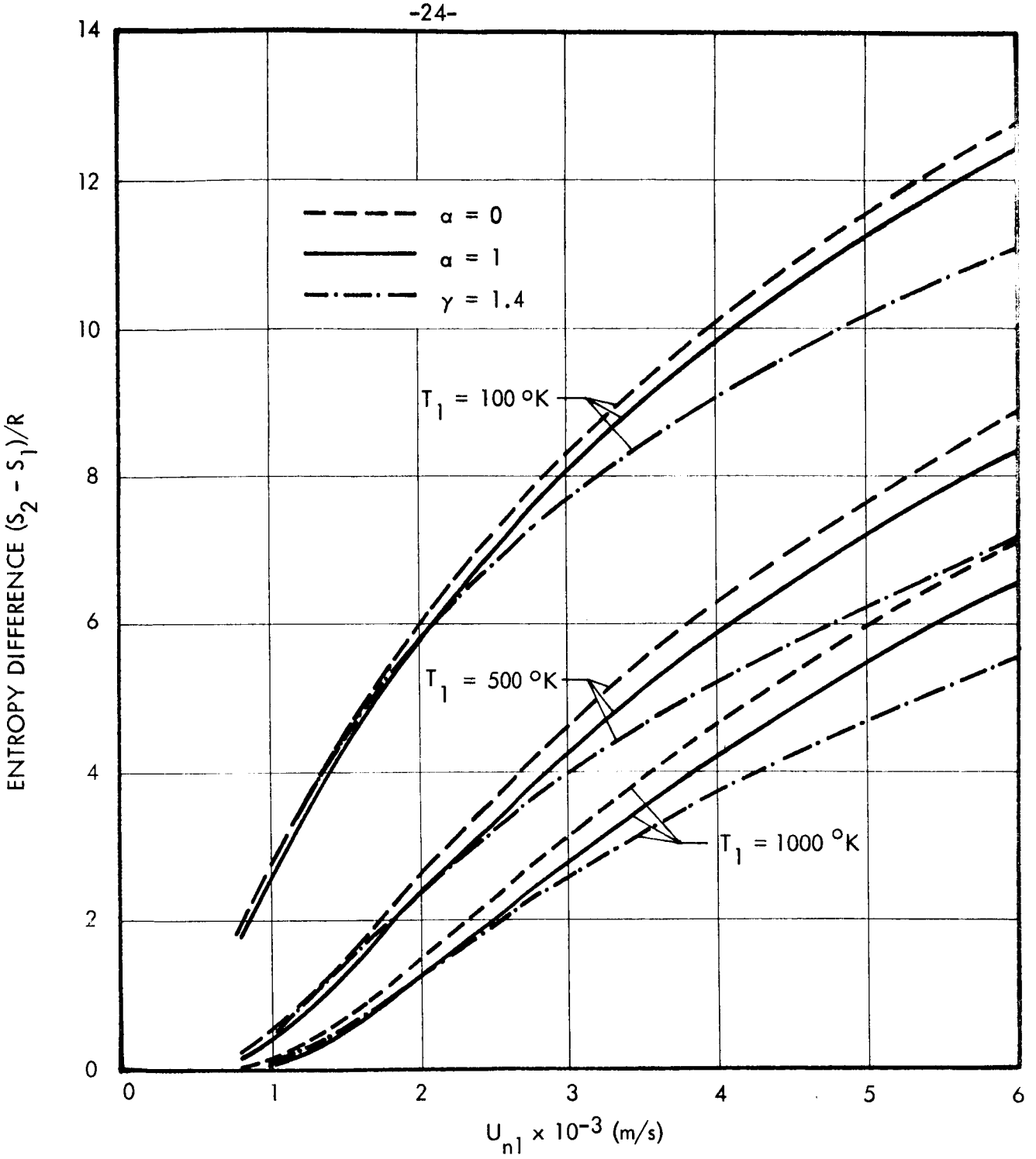

FIG. 11 EFFECT OF UPSTREAM DISSOCIATION ON THE ENTROPY INCREASE ACROSS A NORMAL SHOCK FOR T_1 = 100, 500, 1000 °K.

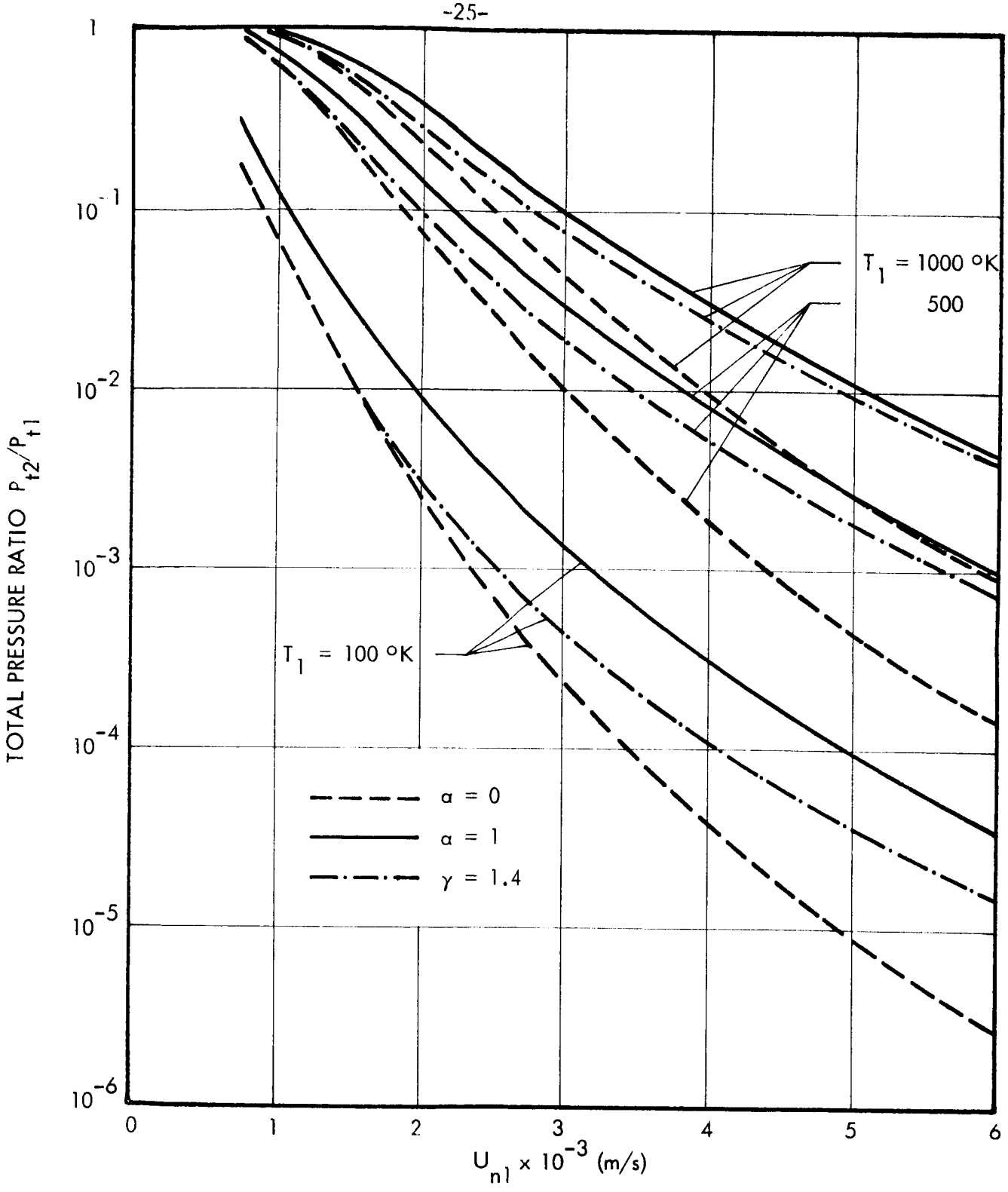

FIG. 12 EFFECT OF UPSTREAM DISSOCIATION ON THE TOTAL PRESSURE RATIO ACROSS A NORMAL SHOCK FOR T_1 = 100, 500, 1000 °K.

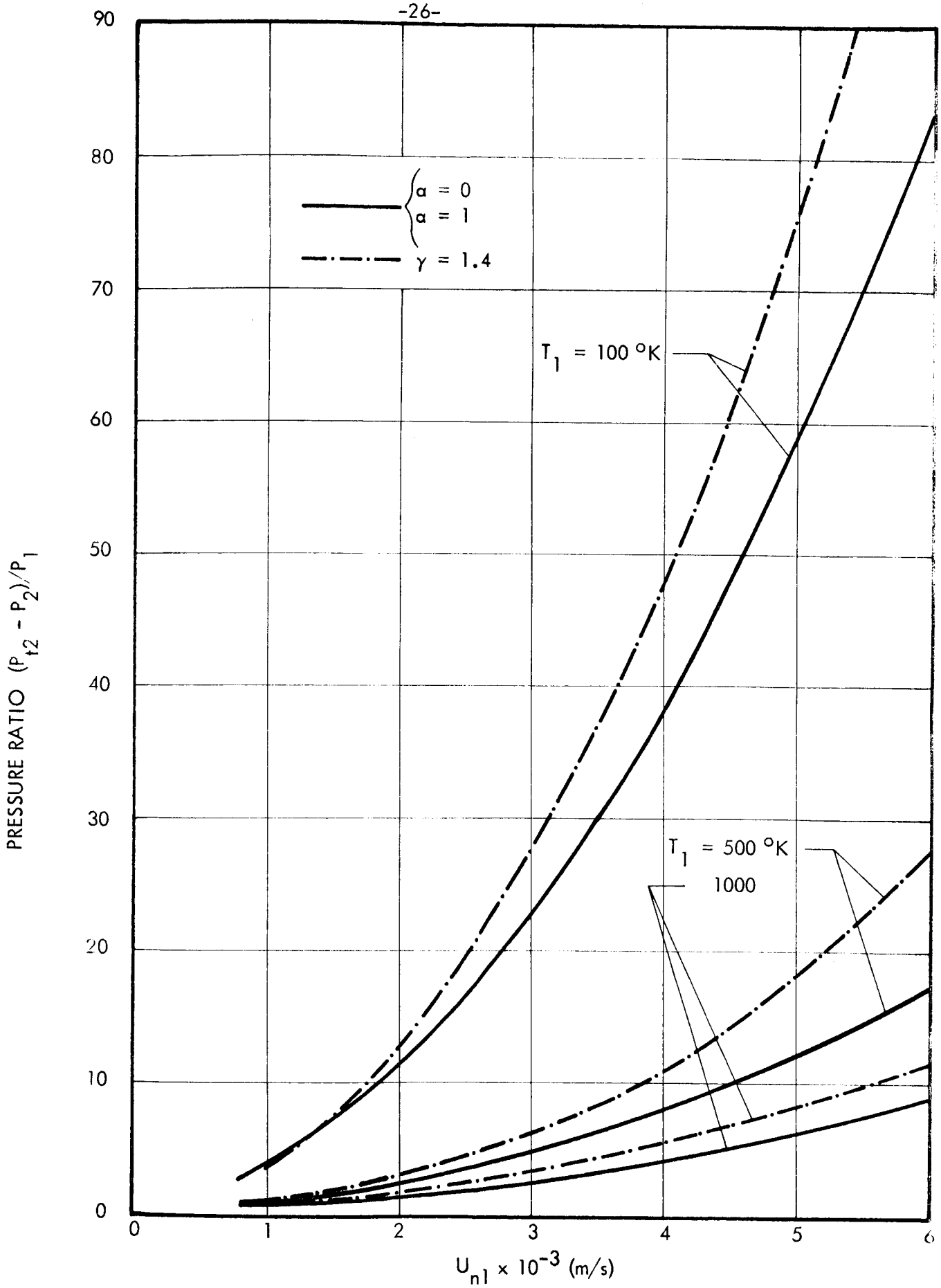

FIG. 13 EFFECT OF UPSTREAM DISSOCIATION ON THE COMPRESSION FROM BEHIND THE SHOCK TO THE STAGNATION POINT FOR T_1 = 100, 500, 1000 °K.

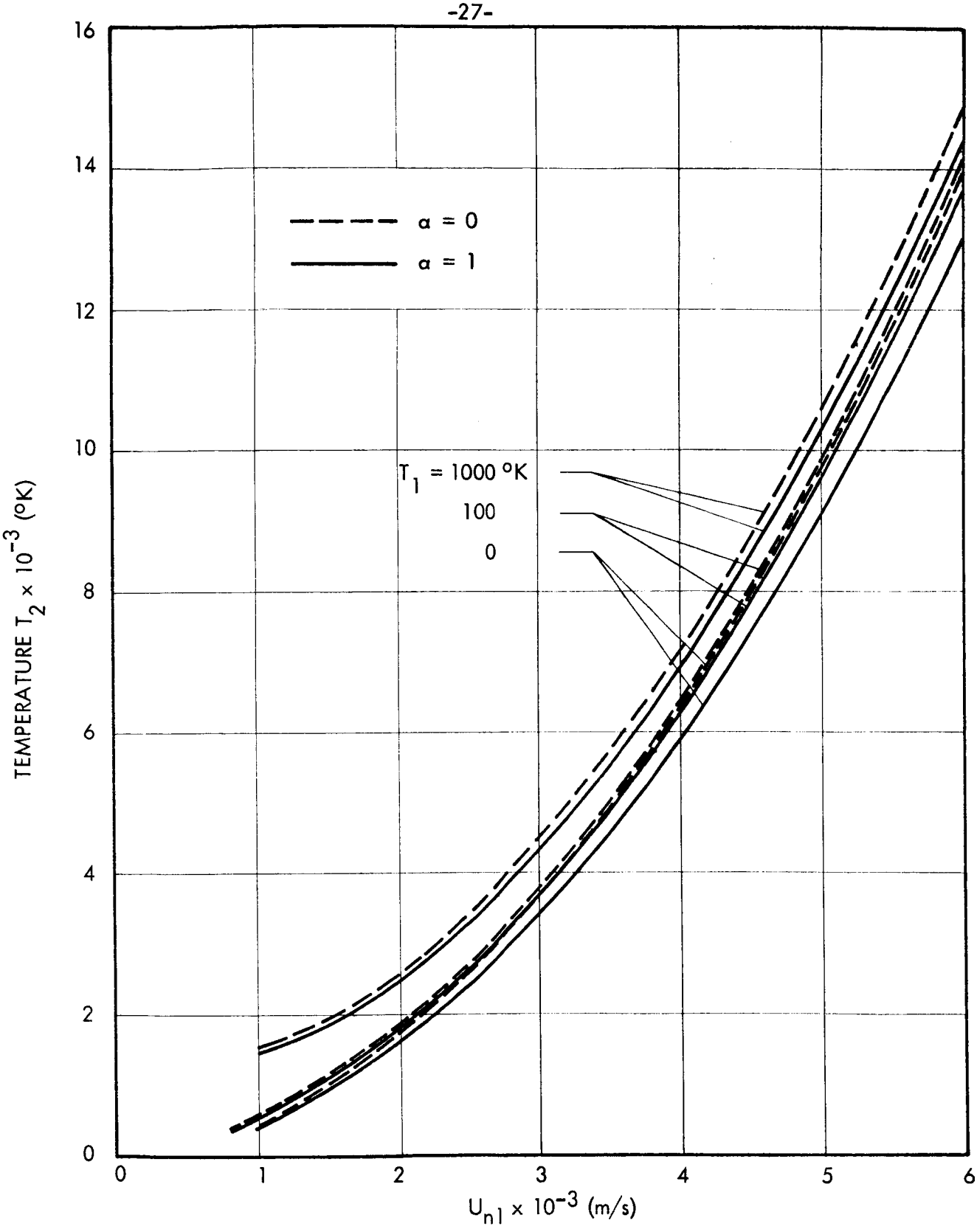

FIG. 14 TEMPERATURE BEHIND A NORMAL SHOCK FOR VARIOUS FREE STREAM CONDITIONS.

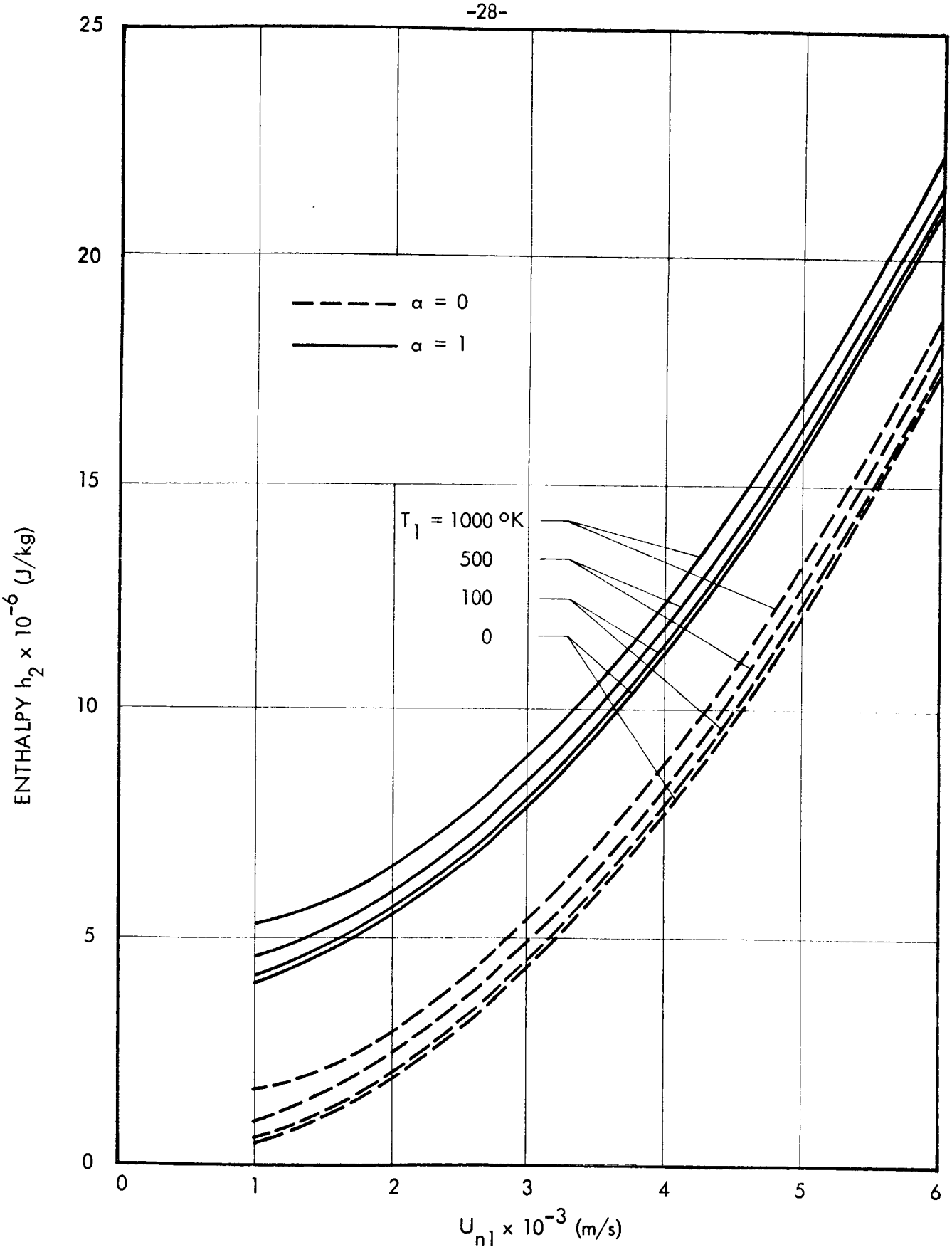

FIG. 15 ENTHALPY BEHIND A NORMAL SHOCK FOR VARIOUS FREE STREAM CONDITIONS.

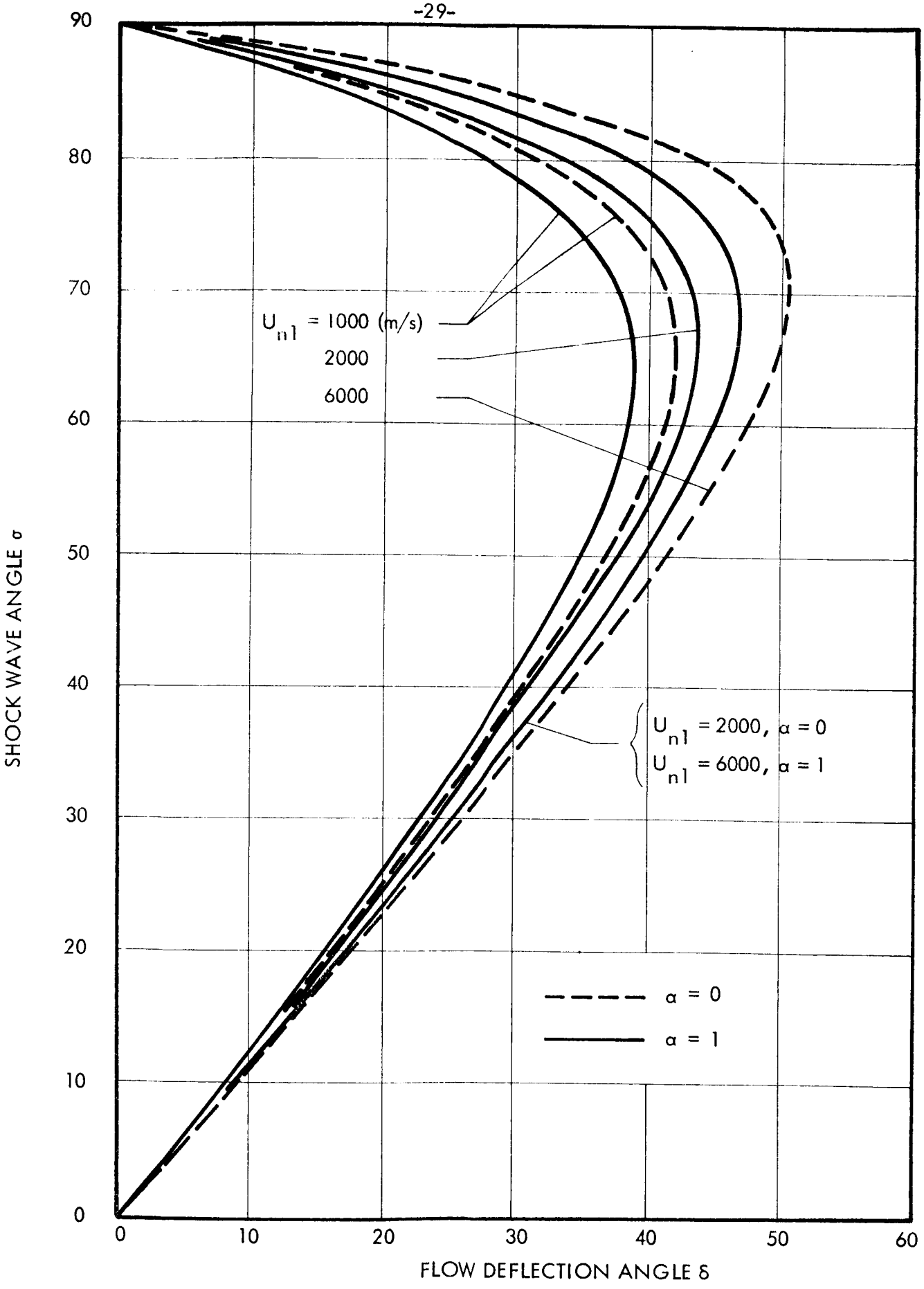

FIG. 16 EFFECT OF NORMAL VELOCITY AND UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 100 °K

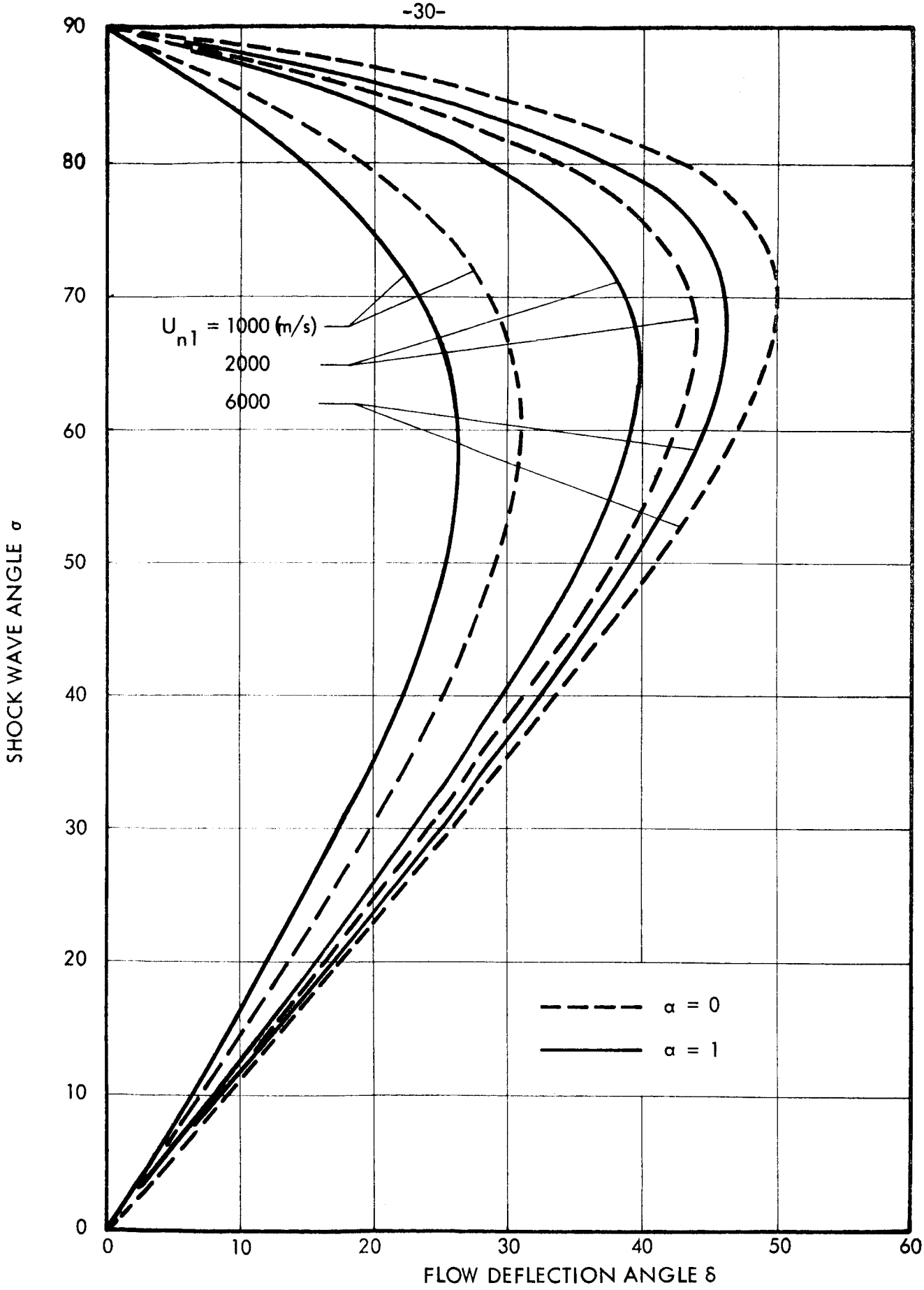

FIG. 17 EFFECT OF NORMAL VELOCITY AND UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 500 °K.

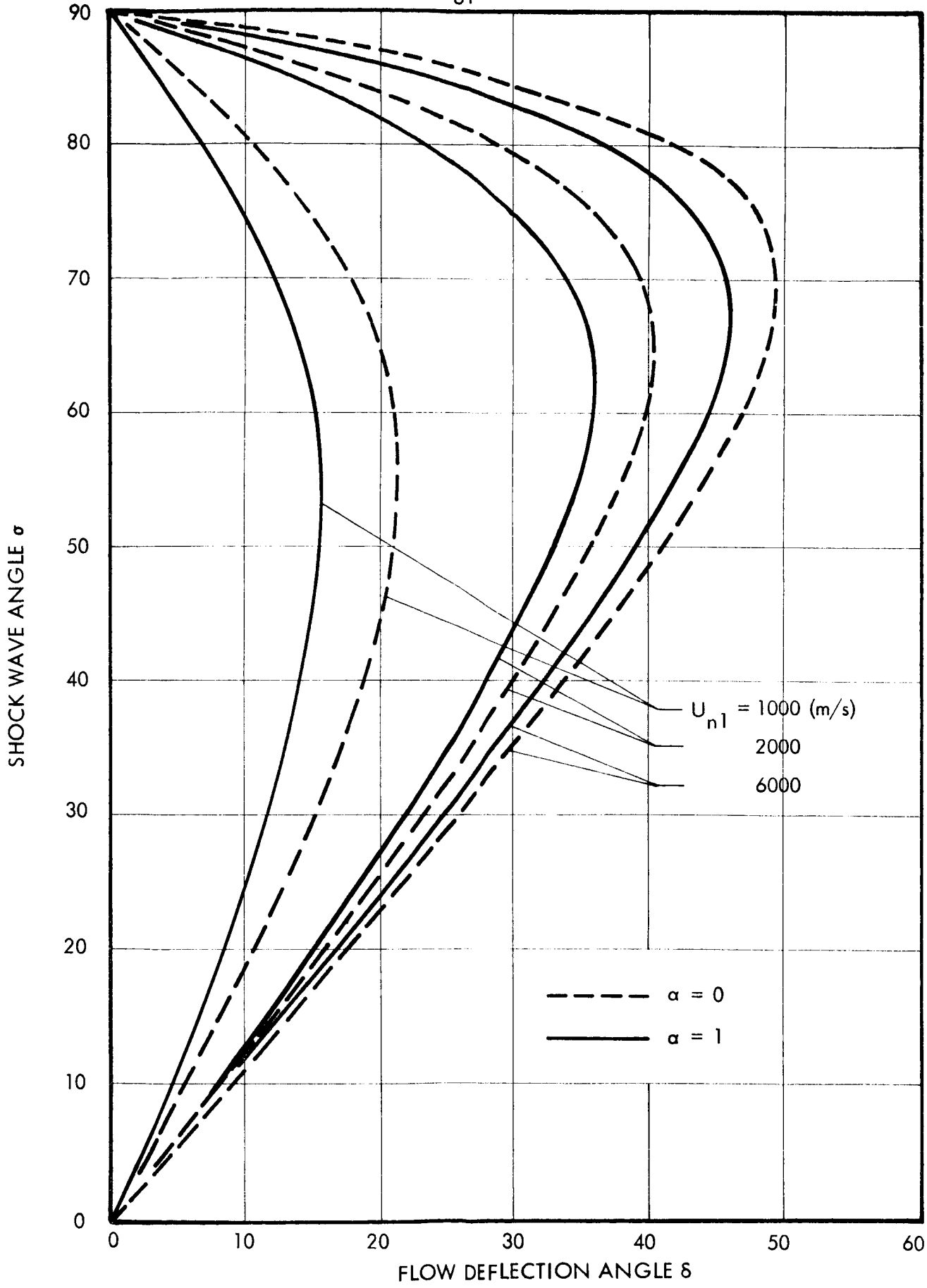

FIG. 18 EFFECT OF NORMAL VELOCITY AND UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 1000 °K.

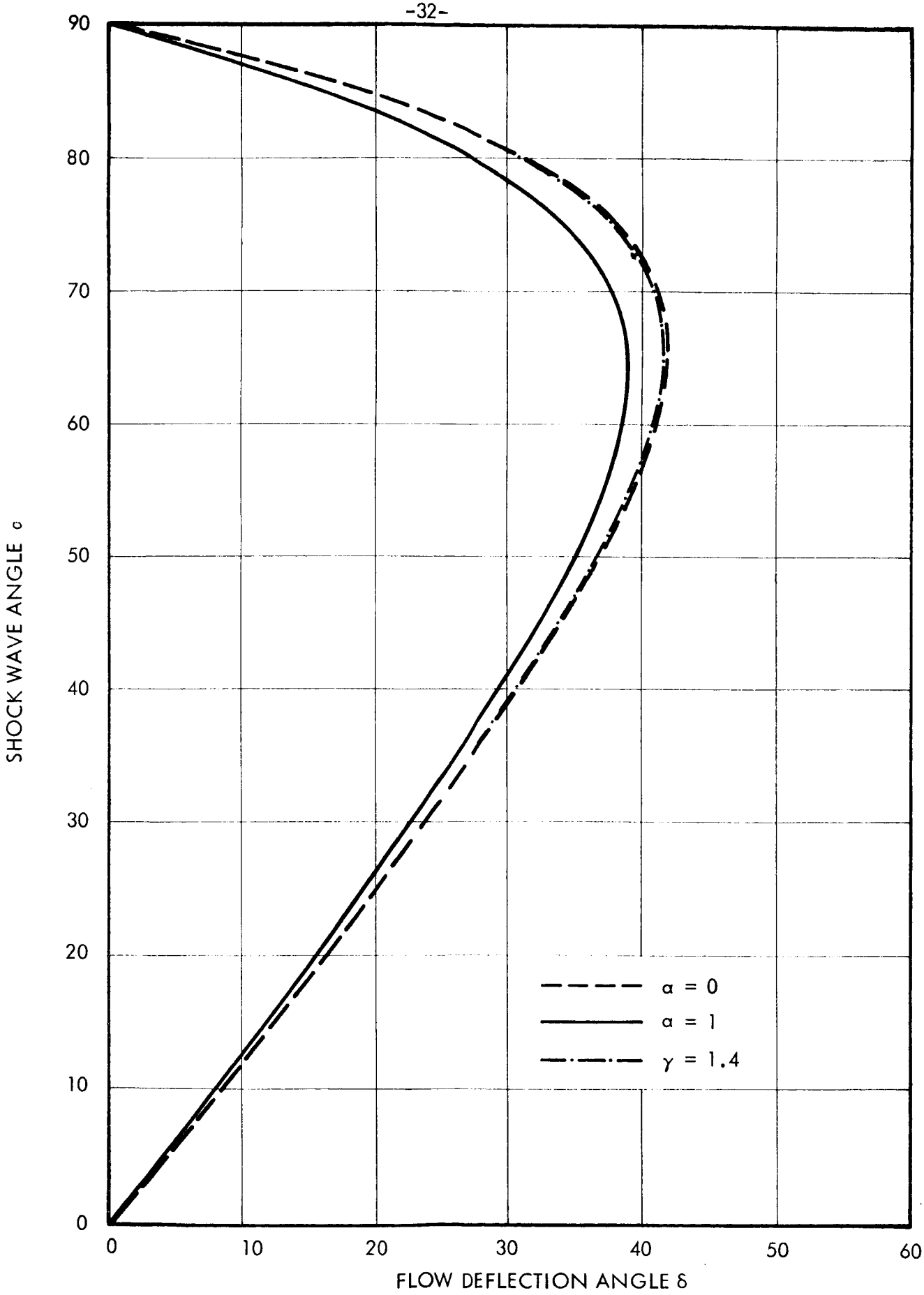

FIG. 19 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 100 °K and U_{n1} = 1000 m/sec.

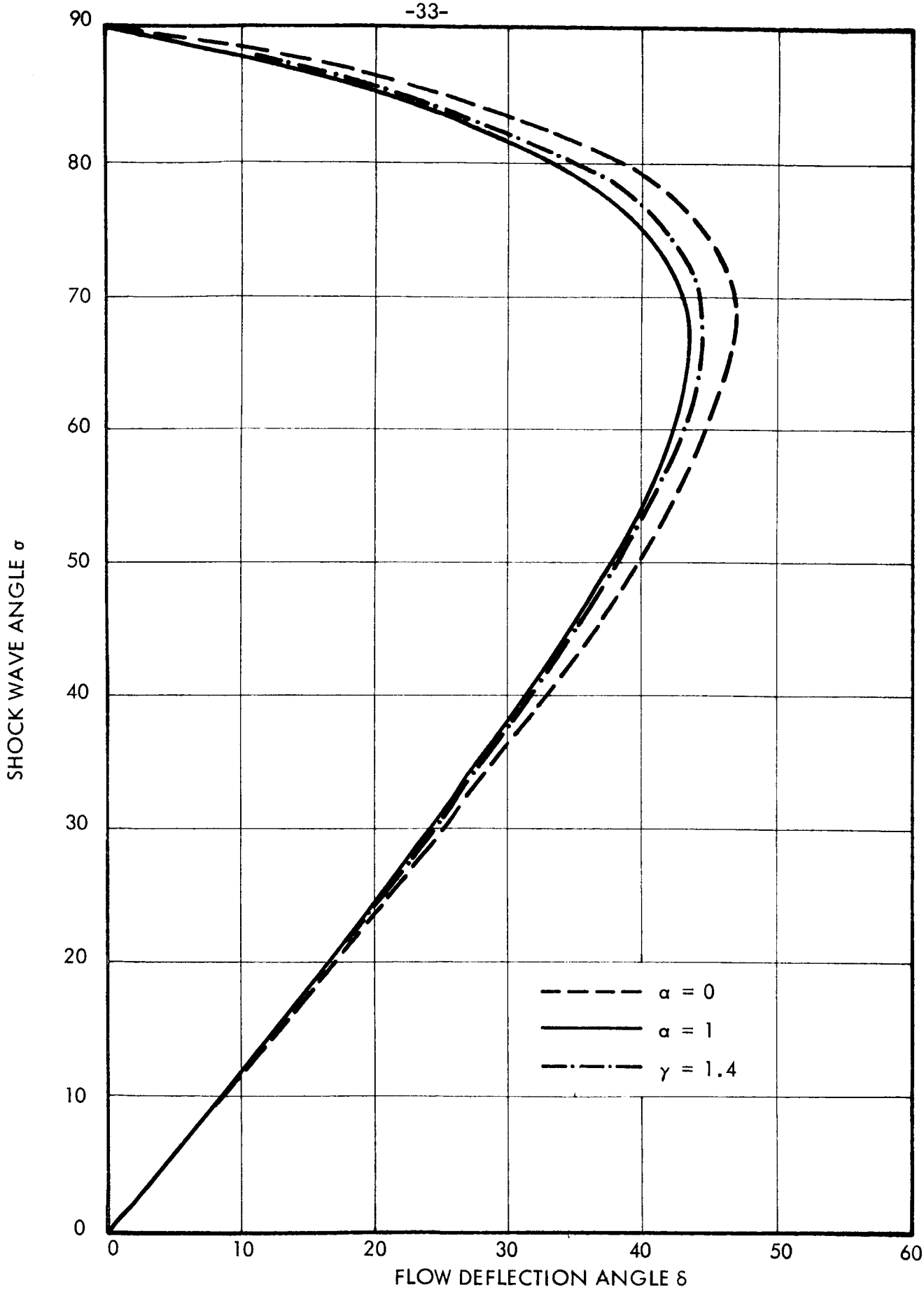

FIG. 20 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 100 °K and U_{n1} = 2000 m/sec.

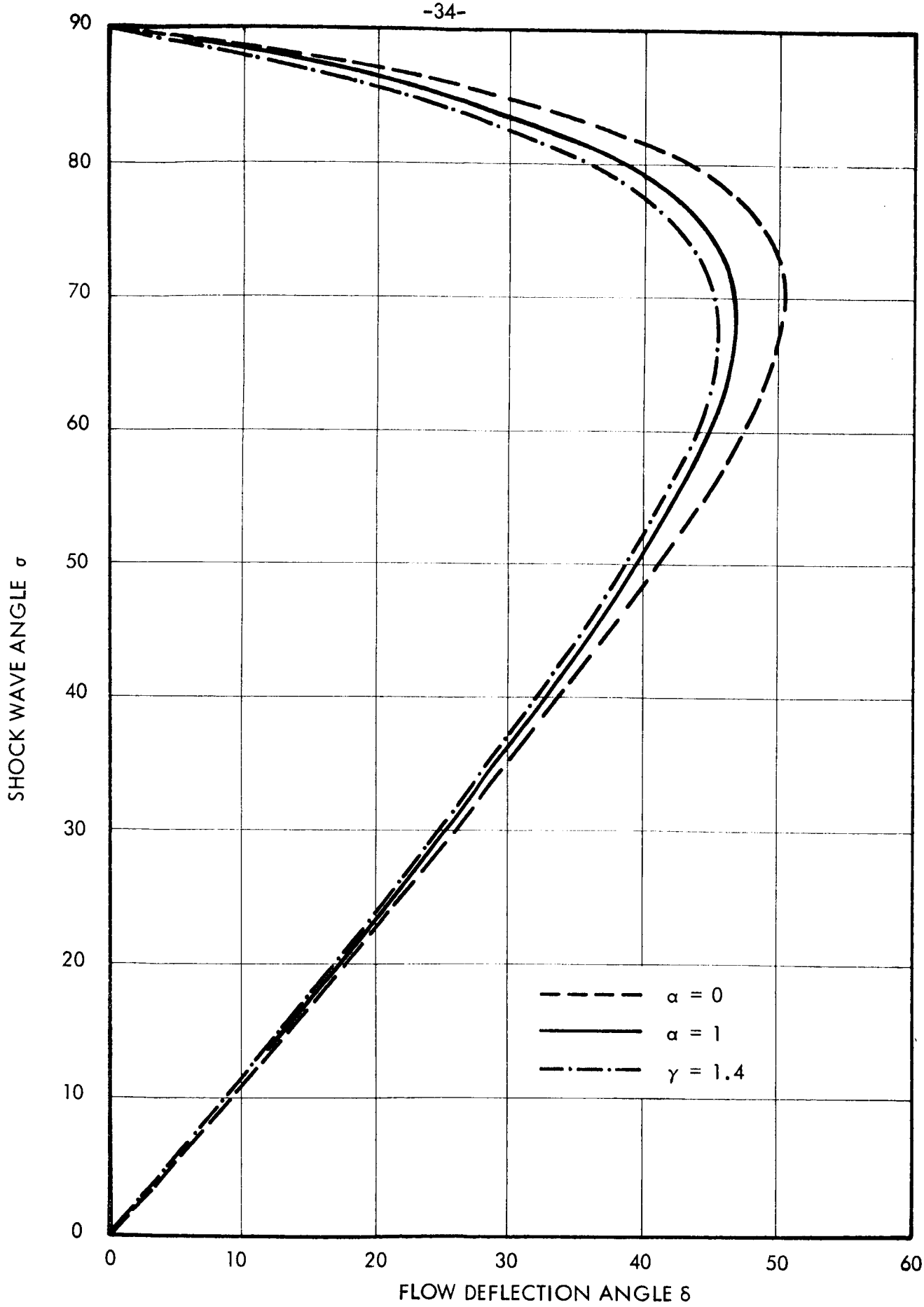

FIG. 21 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 100 °K and U_{n1} = 6000 m/sec.

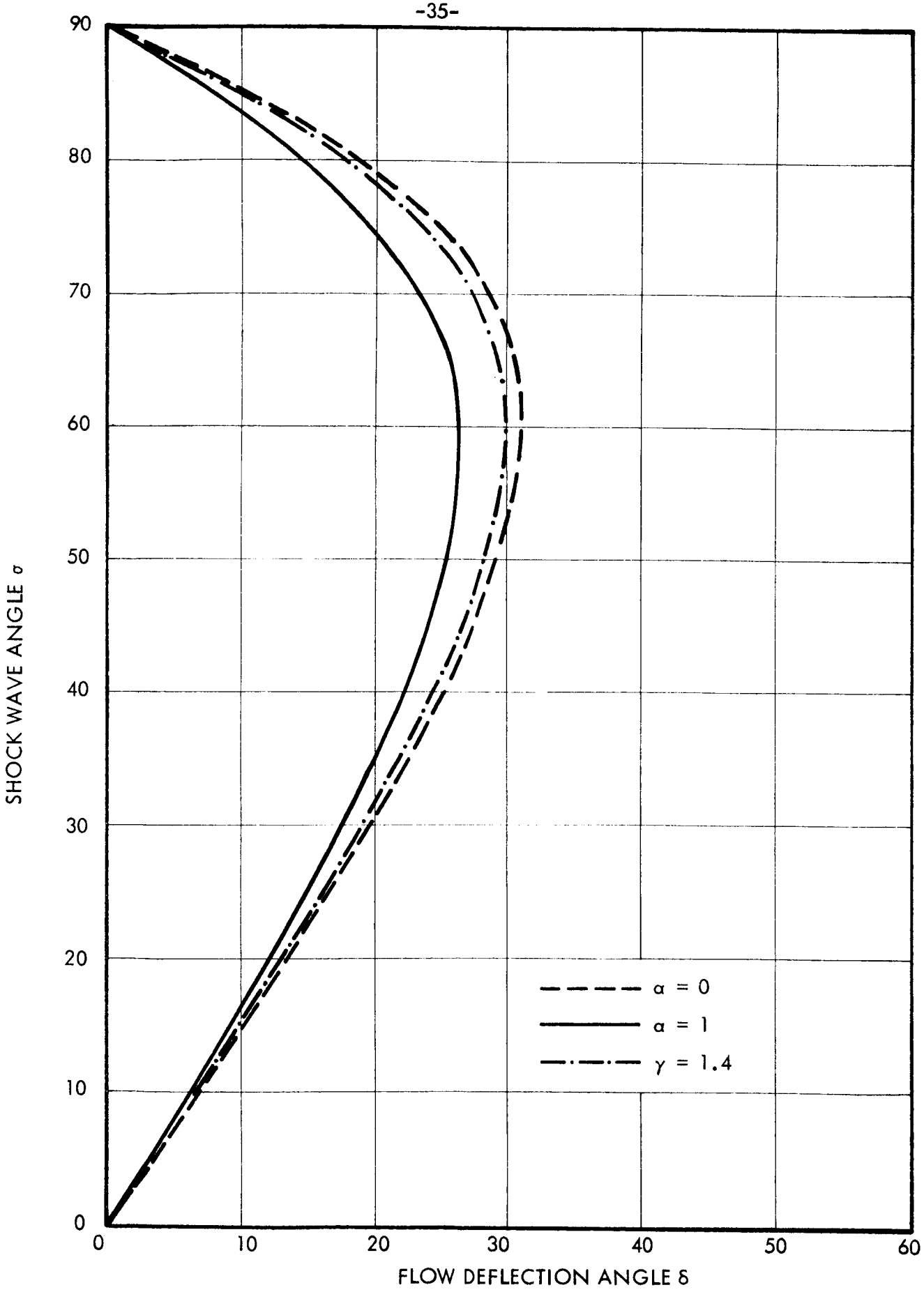

FIG. 22 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 500 °K and U_{n1} = 1000 m/sec.

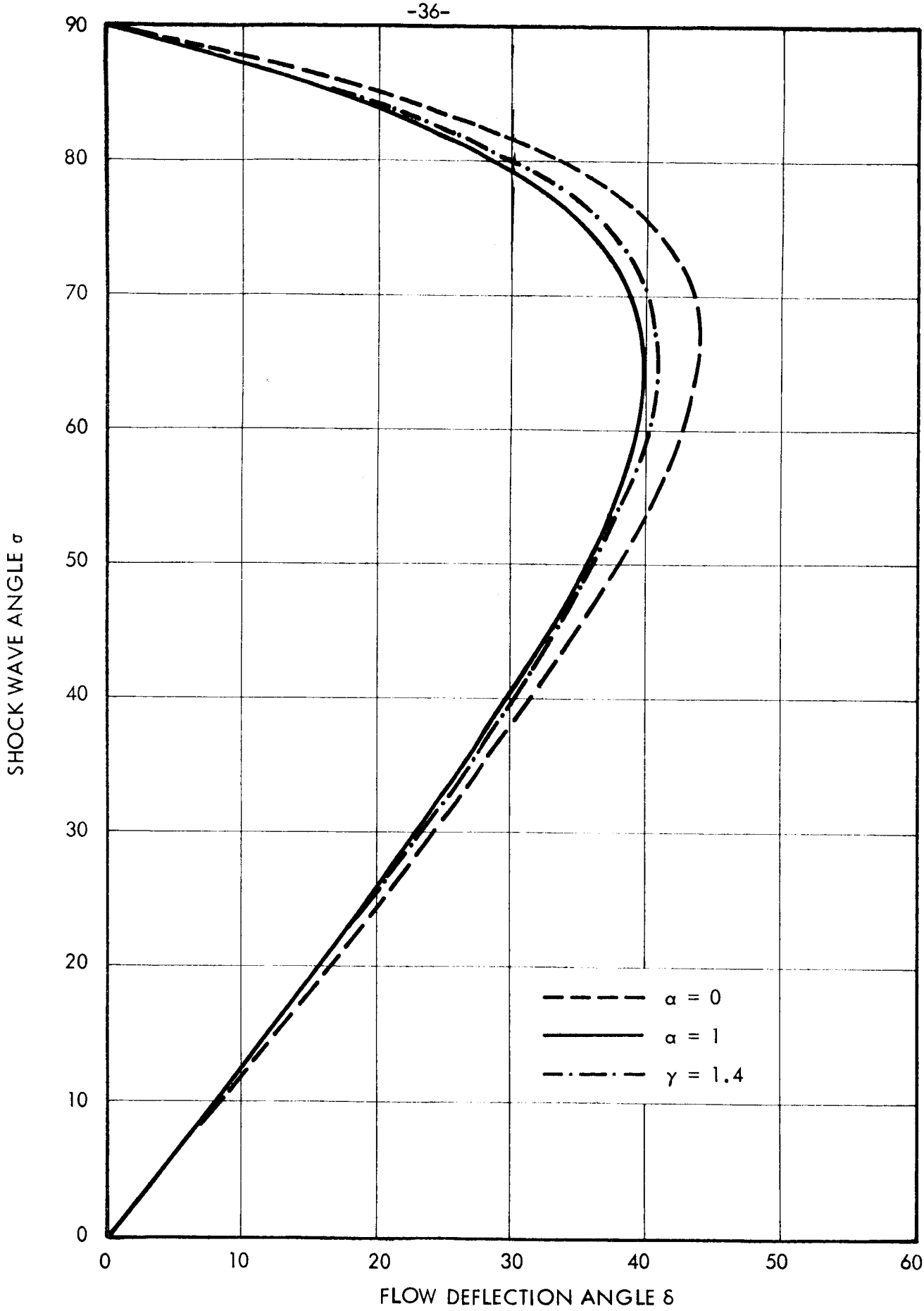

FIG. 23 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 500 °K and U_{n1} = 2000 m/sec.

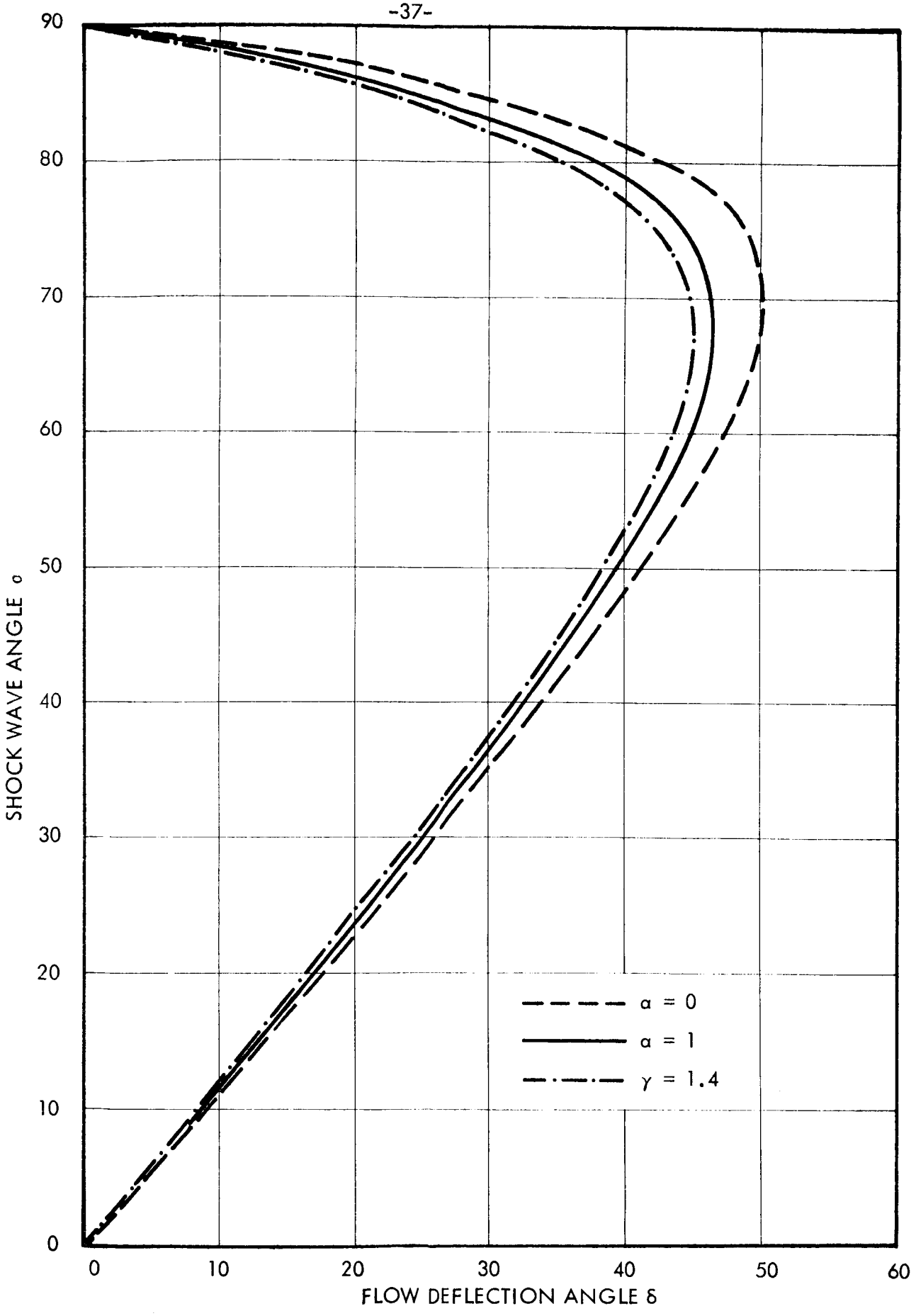

FIG. 24 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 500 °K and U_{n1} = 6000 m/sec.

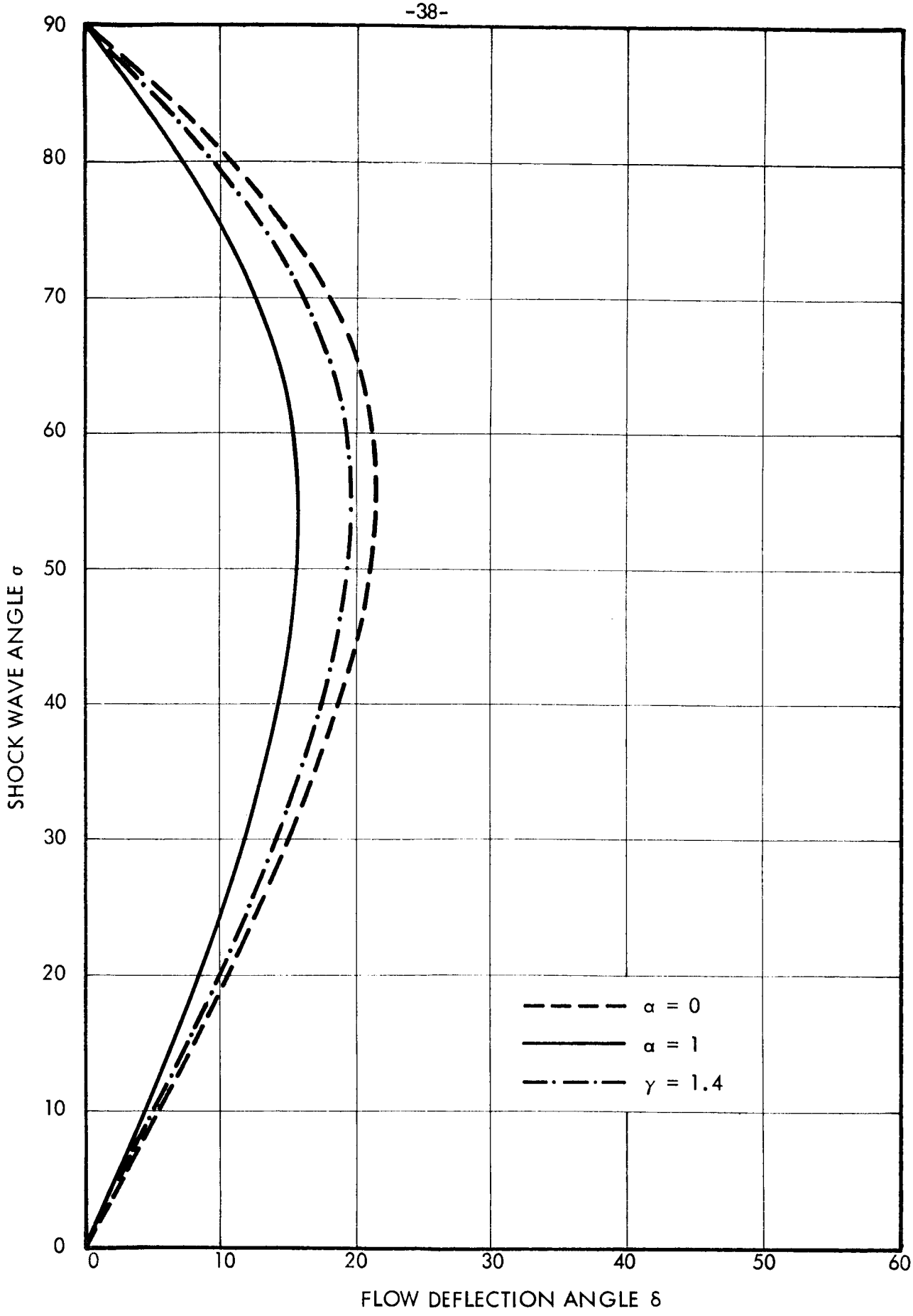

FIG. 25 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 1000 °K and U_{n1} = 1000 m/sec.

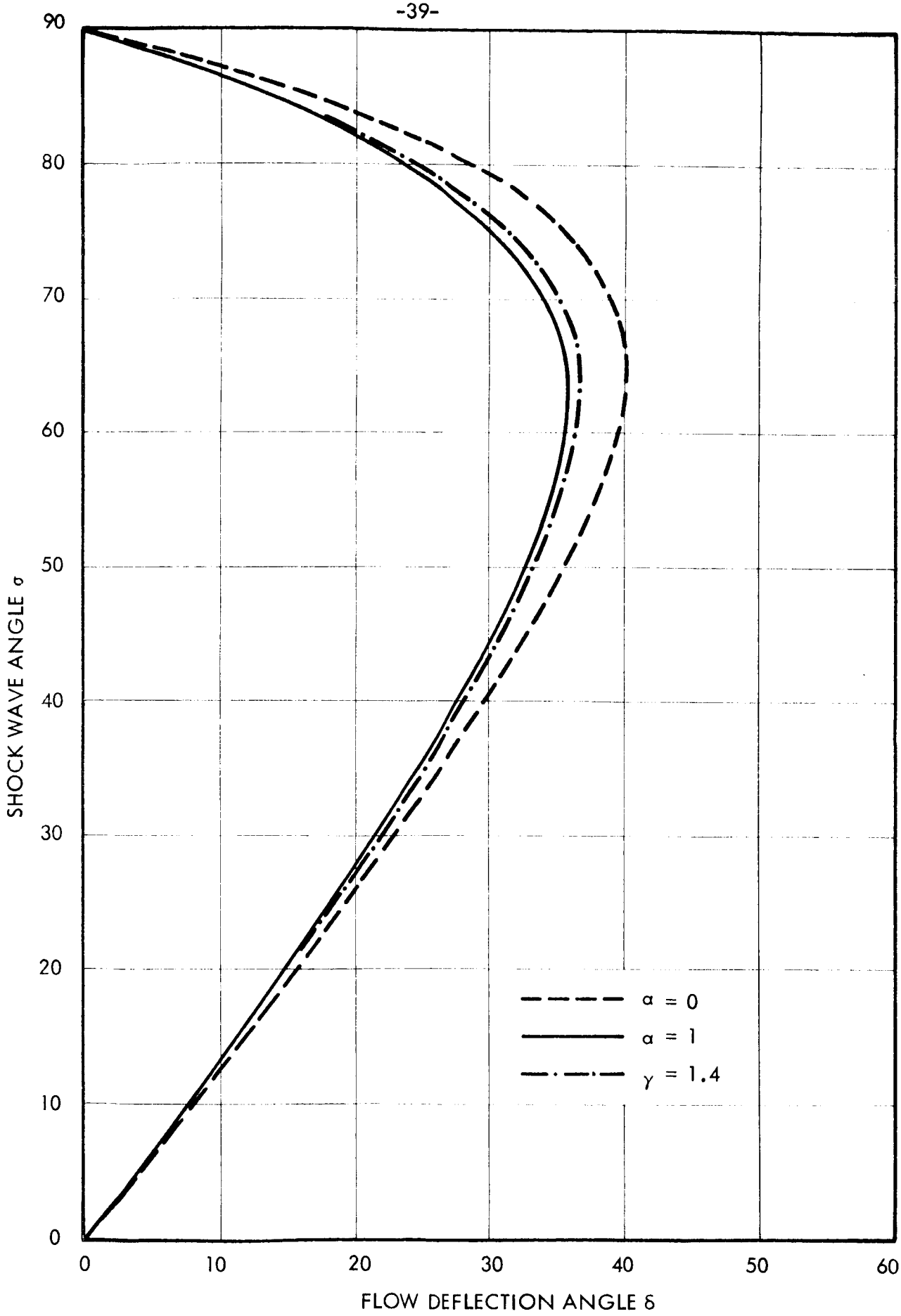

FIG. 26 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 1000 °K and U_{n1} = 2000 m/sec.

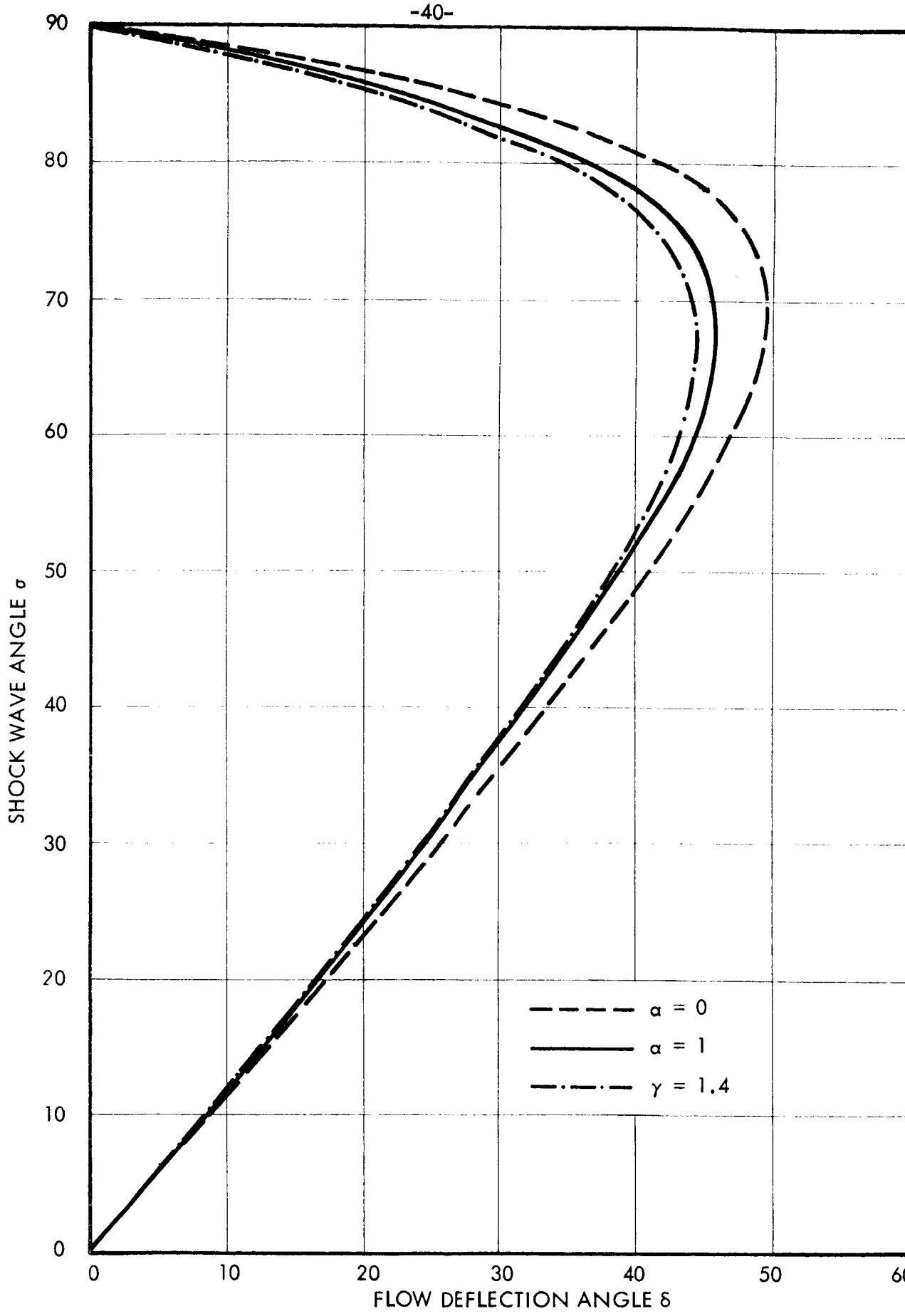

FIG. 27 EFFECT OF UPSTREAM DISSOCIATION ON THE OBLIQUE SHOCK ANGLE FOR T_1 = 1000 °K and U_{n1} = 6000 m/sec.

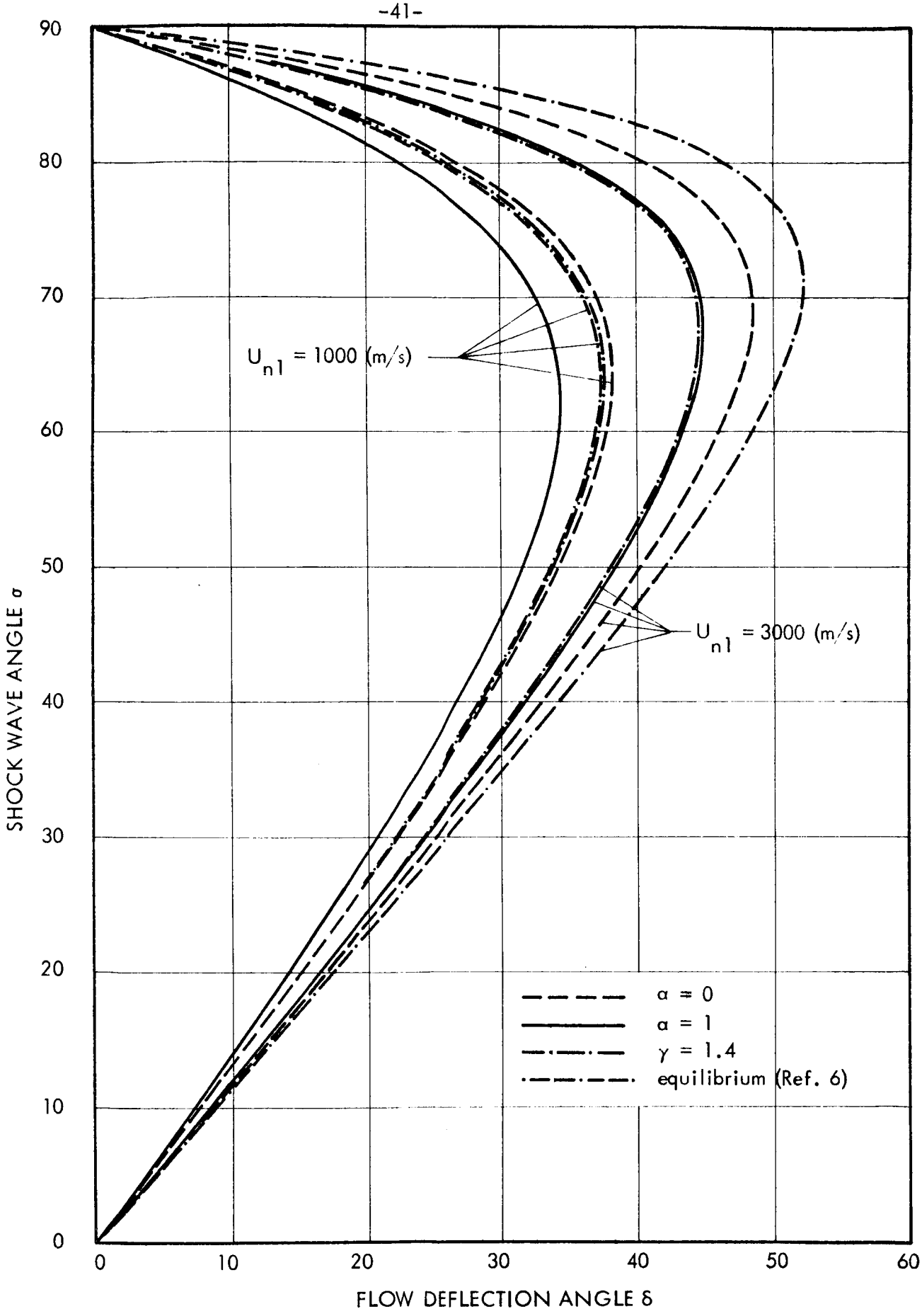

FIG. 28 COMPARISON OF FROZEN FLOW ACROSS THE SHOCK AND EQUILIBRIUM FLOW BEHIND THE SHOCK FOR T_1 = 218 °K (100,000 ft. altitude).

T1 = 100.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.21856	4.57531	9.02489	18.42430	4.03345	1.96447	0.13967044	2.55468
1000.00	0.19617	5.04619	5.73467	28.93899	5.78212	2.76287	0.06186097	3.58975
1200.00	0.18475	5.40685	7.74782	41.69130	7.92256	3.53134	0.02926456	4.82638
1400.00	0.17721	5.71730	10.12619	57.33901	10.45768	4.22128	0.01469452	6.20895
1600.00	0.17068	5.99225	12.56444	75.30128	13.38778	4.85576	0.00776007	7.70915
1800.00	0.16041	6.23395	15.36218	95.76699	16.71244	5.45406	0.00427890	9.36586
2000.00	0.15526	6.44065	18.42343	118.66250	20.43046	6.01191	0.00244939	11.19336
2200.00	0.15059	6.62288	21.75476	144.10567	24.54234	6.53547	0.00145104	13.16413
2400.00	0.14754	6.77783	25.37404	171.98080	29.04687	7.02585	0.00088595	15.30092
2600.00	0.14453	6.91416	29.27525	202.41384	33.94472	7.49426	0.00055626	17.59222
2800.00	0.14228	7.02847	33.46545	235.21085	39.23441	7.93512	0.00035795	20.06223
3000.00	0.14027	7.12911	37.94468	270.54044	44.91697	8.35287	0.00023572	22.69351
3200.00	0.13800	7.21518	42.72276	308.28145	50.99154	8.74994	0.00015847	25.50281
3400.00	0.13719	7.28914	47.80100	348.43276	57.45807	9.12802	0.00010858	28.46949
3600.00	0.13577	7.35457	53.17508	391.07996	64.31706	9.48847	0.00007572	31.64730
3800.00	0.13443	7.41138	58.84799	436.14463	71.56801	9.83286	0.00005366	34.98239
4000.00	0.13341	7.46193	64.82156	483.69364	79.21120	10.16233	0.00003860	38.49070
4200.00	0.13323	7.50609	71.09619	533.65426	87.24643	10.47813	0.00002814	42.17806
4400.00	0.13234	7.54495	77.67252	586.03558	95.67353	10.78126	0.00002079	46.04497
4600.00	0.13143	7.57989	84.55125	640.88889	104.49263	11.07256	0.00001553	50.08658
4800.00	0.13139	7.61093	91.73259	698.17049	113.70416	11.35290	0.00001173	54.30690
5000.00	0.13041	7.63898	99.21701	757.91701	123.30752	11.62301	0.00000896	58.70352
5200.00	0.13048	7.66400	107.00454	820.08351	133.30265	11.88361	0.00000690	63.27981
5400.00	0.13010	7.68646	115.09554	884.67696	143.69012	12.13530	0.00000537	68.03555
5600.00	0.12975	7.70694	123.49023	951.73273	154.46952	12.37862	0.00000421	72.96775
5800.00	0.12944	7.72543	132.18876	1021.21506	165.64086	12.61411	0.00000332	78.07960
6000.00	0.12916	7.74231	141.19121	1093.14573	177.20424	12.84223	0.00000265	83.36932

T1 = 100.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.22218	4.50087	3.99545	17.98300	1.65877	1.94735	0.14852337	2.53013
1000.00	0.20143	4.96463	5.69004	28.24862	2.03884	2.76105	0.06694636	3.56996
1200.00	0.18811	5.31615	7.69115	40.88735	2.50402	3.50940	0.03217036	4.80012
1400.00	0.17810	5.61807	9.96193	55.96685	3.05499	4.19765	0.01639301	6.19130
1600.00	0.16993	5.88470	12.48815	73.49496	3.69165	4.83573	0.00877741	7.70842
1800.00	0.16342	6.11929	15.27487	93.47131	4.41449	5.43824	0.00490370	9.34770
2000.00	0.15814	6.32331	18.32414	115.88194	5.22277	5.98676	0.00284337	11.16882
2200.00	0.15382	6.49675	21.65709	140.65536	6.11645	6.50983	0.00170362	13.15222
2400.00	0.15045	6.64689	25.25370	167.85844	7.09569	7.00228	0.00105180	15.28618
2600.00	0.14748	6.78071	29.14280	197.60895	8.16034	7.46654	0.00066755	17.57552
2800.00	0.14509	6.89229	33.31494	229.65086	9.31023	7.90633	0.00043395	20.04652
3000.00	0.14311	6.98747	37.78477	264.04796	10.54535	8.32345	0.00028843	22.66870
3200.00	0.14141	7.07150	42.55214	300.90738	11.86584	8.71951	0.00019570	25.49653
3400.00	0.13998	7.14396	47.61149	340.13446	13.27154	9.09659	0.00013528	28.46199
3600.00	0.13874	7.20786	52.96457	381.78949	14.76262	9.45609	0.00009513	31.63999
3800.00	0.13768	7.26324	58.62419	425.88145	16.33885	9.79956	0.00006796	34.97509
4000.00	0.13677	7.31146	64.57925	472.16643	18.00023	10.12829	0.00004925	38.46986
4200.00	0.13597	7.35464	70.83483	520.96453	19.74697	10.44328	0.00003618	42.17800
4400.00	0.13527	7.39257	77.39120	572.12000	21.57889	10.74553	0.00002691	46.04520
4600.00	0.13466	7.42636	84.24497	625.66443	23.49603	11.03605	0.00002025	50.08974
4800.00	0.13411	7.45656	91.40049	681.59244	25.49836	11.31564	0.00001540	54.31229
5000.00	0.13362	7.48370	98.87014	739.91496	27.58597	11.58501	0.00001183	58.71168
5200.00	0.13319	7.50795	106.63405	800.60286	29.75875	11.84490	0.00000917	63.29089
5400.00	0.13280	7.52988	114.70156	863.66186	32.01677	12.09586	0.00000717	68.04779
5600.00	0.13245	7.54979	123.06984	929.15200	34.36001	12.33851	0.00000565	72.98249
5800.00	0.13214	7.56773	131.74196	996.98752	36.78845	12.57335	0.00000449	78.09712
6000.00	0.13185	7.58412	140.71713	1067.21685	39.30211	12.80062	0.00000360	83.38945

T1 = 100.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.22573	4.43007	5.90452	17.25614	1.58699	1.92540	0.15751786	2.52338
1000.00	0.20476	4.88022	5.64592	27.58778	1.58201	2.73957	0.07219443	3.57560
1200.00	0.19123	5.22930	7.53500	39.92615	1.54275	3.48772	0.03521866	4.79930
1400.00	0.18118	5.51949	9.89776	54.61482	2.15153	4.17632	0.01819096	6.17784
1600.00	0.17295	5.78186	12.31929	71.76632	2.53857	4.81304	0.00987539	7.69065
1800.00	0.16640	6.00953	15.18794	91.27233	2.91365	5.40675	0.00558675	9.35231
2000.00	0.16119	6.20756	18.22179	113.15632	3.56077	5.96245	0.00327817	11.15121
2200.00	0.15678	6.37855	21.54316	137.40775	3.96762	6.48422	0.00198711	13.13451
2400.00	0.15334	6.52151	25.13370	163.90965	4.41667	6.97711	0.00123956	15.27152
2600.00	0.15054	6.65153	29.01145	192.96387	5.01355	7.43939	0.00079476	17.56262
2800.00	0.14774	6.75937	33.17437	224.23785	5.45822	7.87729	0.00052163	20.03588
3000.00	0.14570	6.85386	37.62463	257.98914	6.35072	8.29417	0.00035000	22.67204
3200.00	0.14421	6.93427	42.37795	293.88025	7.19095	8.68945	0.00023954	25.48795
3400.00	0.14276	7.00486	47.42171	332.18241	7.27905	9.06553	0.00016697	28.47380
3600.00	0.14150	7.06696	52.76531	372.86909	8.71494	9.42417	0.00011637	31.63263
3800.00	0.14044	7.12030	58.41042	415.82424	9.59564	9.76805	0.00008520	34.97216
4000.00	0.13951	7.16770	64.33740	461.15107	10.53011	10.09464	0.00006221	38.48565
4200.00	0.13871	7.20926	70.57573	508.78594	11.52935	10.40879	0.00004602	42.17789
4400.00	0.13800	7.24637	77.11115	558.76853	12.58834	10.71129	0.00003446	46.04548
4600.00	0.13736	7.27913	83.94496	611.06058	13.71117	11.00001	0.00002610	50.09263
4800.00	0.13682	7.30862	91.08474	665.70342	14.73375	11.27861	0.00001997	54.31587
5000.00	0.13634	7.33485	98.52760	722.65604	15.90412	11.54746	0.00001543	58.71871
5200.00	0.13590	7.35846	106.28391	781.93837	17.12225	11.80662	0.00001204	63.29974
5400.00	0.13551	7.37970	114.35568	843.54974	18.38815	12.05690	0.00000947	68.05902
5600.00	0.13515	7.39903	122.64968	907.48955	19.70184	12.29867	0.00000751	72.99686
5800.00	0.13484	7.41640	131.24543	973.74776	21.06329	12.53304	0.00000600	78.11390
6000.00	0.13455	7.43241	140.24335	1042.34466	22.47253	12.75985	0.00000482	83.40666

T1 = 100.00 ALPHA = 0.30

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1I/R	PT2/PT1	(PT2-P2)/P1
800.00	0.22924	4.36222	3.93406	17.16125	1.25597	1.90570	0.16662668	2.51627
1000.00	0.20787	4.81075	5.60232	26.95132	1.40391	2.71843	0.07759597	3.56151
1200.00	0.19450	5.14663	7.57939	39.00827	1.56494	3.46625	0.03440578	4.76205
1400.00	0.18410	5.43174	9.82273	53.36710	1.79936	4.15404	0.02011697	6.13951
1600.00	0.17596	5.68319	12.33561	70.10674	2.04723	4.79872	0.01105485	7.67287
1800.00	0.16948	5.90043	15.10189	89.10177	2.32845	5.38438	0.00632627	9.34150
2000.00	0.16413	6.09283	18.13127	110.47078	2.64309	5.93907	0.00375480	11.14160
2200.00	0.15968	6.26265	21.43418	134.23470	2.99108	6.45937	0.00230199	13.11673
2400.00	0.15620	6.40185	25.01412	160.13670	3.37221	6.95827	0.00145088	15.25562
2600.00	0.15319	6.52798	28.87749	188.51830	3.78672	7.41260	0.00093934	17.54876
2800.00	0.15078	6.63204	33.02910	219.05020	4.23435	7.85063	0.00062221	20.02474
3000.00	0.14873	6.72369	37.47035	251.93914	4.71525	8.26558	0.00042119	22.66451
3200.00	0.14699	6.80308	42.20418	287.11850	5.22934	8.65976	0.00029074	25.47722
3400.00	0.14552	6.87182	47.23236	324.57279	5.77663	9.03495	0.00020431	28.46341
3600.00	0.14427	6.93149	52.55628	364.29321	6.35710	9.39273	0.00014594	31.62630
3800.00	0.14320	6.98332	58.17700	406.26853	6.97075	9.73453	0.00010582	34.96784
4000.00	0.14226	7.02930	64.09571	450.54801	7.61759	10.06148	0.00007781	38.48355
4200.00	0.14144	7.06989	70.31296	497.10516	8.29762	10.37478	0.00005796	42.17632
4400.00	0.14073	7.10590	76.82935	545.94257	9.01083	10.67544	0.00004368	46.04626
4600.00	0.14010	7.13790	83.64531	597.05158	9.75722	10.96439	0.00003329	50.09427
4800.00	0.13954	7.16629	90.76114	650.42282	10.53679	11.24246	0.00002563	54.32157
5000.00	0.13904	7.19196	98.17737	706.08983	11.34954	11.51035	0.00001992	58.72512
5200.00	0.13860	7.21493	105.89405	764.01795	12.19545	11.76879	0.00001562	63.30824
5400.00	0.13821	7.23551	113.91141	824.20668	13.07450	12.01839	0.00001236	68.07109
5600.00	0.13785	7.25430	122.22960	886.69185	13.98684	12.25967	0.00000985	73.01062
5800.00	0.13753	7.27126	130.84821	951.43814	14.93229	12.49318	0.00000791	78.13007
6000.00	0.13724	7.28665	139.76979	1018.45366	15.91092	12.71937	0.00000639	83.42869

T1 = 100.00 ALPHA = 0.40

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.23272	4.29706	3.90406	16.77600	1.19581	1.88527	0.17563401	2.50887
1000.00	0.21105	4.73824	5.55524	26.34106	1.30905	2.69750	0.08314504	3.54749
1200.00	0.19754	5.06730	7.52429	38.12781	1.44765	3.44514	0.04173515	4.76472
1400.00	0.18711	5.34451	9.76263	52.17756	1.61184	4.13259	0.02214277	6.12932
1600.00	0.17894	5.58649	12.25573	68.51343	1.80158	4.76876	0.01231683	7.65493
1800.00	0.17232	5.80318	15.01519	87.13514	2.01691	5.36101	0.00713424	9.29795
2000.00	0.16695	5.99000	18.03516	108.03055	2.25784	5.91497	0.00428087	11.11793
2200.00	0.16258	6.15069	21.32444	131.17241	2.52419	6.43502	0.00265031	13.09982
2400.00	0.15913	6.28817	24.89510	156.54465	2.81604	6.92464	0.00168749	15.23687
2600.00	0.15632	6.40923	28.74482	184.24409	3.13337	7.38424	0.00110258	17.53537
2800.00	0.15381	6.51016	32.88423	214.08145	3.47613	7.82333	0.00073687	20.01238
3000.00	0.15153	6.59917	37.31149	246.22483	3.84434	8.23735	0.00050305	22.65501
3200.00	0.14979	6.67623	42.03151	280.60545	4.23797	8.63060	0.00035006	25.46875
3400.00	0.14830	6.74300	47.04402	317.21082	4.65702	9.00486	0.00024790	28.45752
3600.00	0.14703	6.80119	52.35149	356.04585	5.10148	9.36174	0.00017839	31.62060
3800.00	0.14595	6.85183	57.95392	397.09081	5.57135	9.70263	0.00013026	34.96277
4000.00	0.14499	6.89680	63.85448	440.39120	6.06664	10.02876	0.00009645	38.47854
4200.00	0.14417	6.93622	70.05259	485.89996	6.58733	10.34117	0.00007231	42.17299
4400.00	0.14345	6.97091	76.54882	533.61464	7.13342	10.64107	0.00005484	46.04712
4600.00	0.14281	7.00216	83.34392	583.58708	7.70493	10.92922	0.00004205	50.09602
4800.00	0.14225	7.02985	90.43798	635.76409	8.30183	11.20652	0.00003256	54.32449
5000.00	0.14175	7.05452	97.83133	690.15276	8.92414	11.47371	0.00002545	58.73205
5200.00	0.14130	7.07693	105.52444	746.78687	9.57186	11.73142	0.00002007	63.31709
5400.00	0.14090	7.09702	113.51731	805.63473	10.24496	11.98031	0.00001595	68.08140
5600.00	0.14055	7.11514	121.81116	866.69635	10.94351	12.22093	0.00001278	73.02505
5800.00	0.14022	7.13168	130.40824	929.99369	11.66743	12.45377	0.00001031	78.14643
6000.00	0.13993	7.14667	139.29857	995.50670	12.41675	12.67932	0.00000837	83.44731

T1 = 100.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.23616	4.23440	3.37451	14.40624	1.15844	1.86510	0.16512481	2.50121
1000.00	0.21417	4.66917	5.51473	25.75859	1.25015	2.67469	0.06864309	3.53303
1200.00	0.20036	4.99106	7.46968	37.28163	1.36238	3.42430	0.04519315	4.74745
1400.00	0.19009	5.26066	9.69737	51.01481	1.49533	4.11148	0.02427585	6.11930
1600.00	0.18149	5.49772	12.16403	66.96465	1.64897	4.74711	0.01366233	7.63660
1800.00	0.17537	5.70211	14.92188	85.12579	1.82334	5.33933	0.00799694	9.28968
2000.00	0.16990	5.88574	17.93457	105.58176	2.01845	5.89210	0.00485084	11.10591
2200.00	0.16544	6.04447	21.21425	128.25910	2.23422	6.41064	0.00303443	13.06039
2400.00	0.16156	6.17823	24.77428	153.07356	2.47059	6.89951	0.00195051	15.22020
2600.00	0.15848	6.29424	28.61529	180.11138	2.72760	7.36041	0.00128566	17.52466
2800.00	0.15642	6.39316	32.73771	209.31065	3.00523	7.79642	0.00086671	19.99958
3000.00	0.15452	6.48019	37.15512	240.75982	3.30348	8.20942	0.00059656	22.64244
3200.00	0.15256	6.55474	41.85725	274.36326	3.62223	8.60160	0.00041837	25.45763
3400.00	0.15117	6.61954	46.85409	310.15246	3.96163	8.97518	0.00029647	28.44852
3600.00	0.14979	6.67597	52.14501	348.11849	4.32161	9.33117	0.00021032	31.61456
3800.00	0.14869	6.72541	57.73114	388.26586	4.70218	9.67115	0.00015906	34.95725
4000.00	0.14773	6.76916	63.61346	430.60967	5.10333	9.99437	0.00011853	38.47456
4200.00	0.14690	6.80724	69.79233	475.09319	5.52505	10.30806	0.00008941	42.17237
4400.00	0.14617	6.84123	76.26764	521.77186	5.96735	10.60712	0.00006822	46.04650
4600.00	0.14553	6.87153	83.04078	570.63076	6.43023	10.89449	0.00005261	50.09769
4800.00	0.14496	6.89843	90.11500	621.65159	6.91369	11.17104	0.00004097	54.32689
5000.00	0.14445	6.92259	97.48872	674.85326	7.41772	11.43747	0.00003220	58.73754
5200.00	0.14401	6.94417	105.15507	730.21526	7.94232	11.69449	0.00002552	63.32616
5400.00	0.14360	6.96382	113.12348	787.77197	8.48751	11.94267	0.00002039	68.09164
5600.00	0.14324	6.98147	121.39790	847.48699	9.05327	12.18261	0.00001641	73.03737
5800.00	0.14291	6.99744	129.95755	909.36972	9.63960	12.41480	0.00001330	78.16247
6000.00	0.14261	7.01205	138.82364	973.43896	10.24651	12.63970	0.00001085	83.46547

T1 = 100.00 ALPHA = 0.60

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.23958	4.17406	3.[illegible]	16.05093	1.13297	1.84519	0.19448486	2.49332
1000.00	0.21726	4.60287	5.47676	25.19965	1.21001	2.65644	0.09467542	3.51853
1200.00	0.20365	4.91764	7.41557	36.46707	1.[illegible]423	3.40376	0.04877796	4.73034
1400.00	0.19310	5.17865	9.63219	49.88174	1.41591	4.09695	0.02650916	6.09547
1600.00	0.18453	5.41042	12.10764	65.51365	1.54499	4.72581	0.01509130	7.61824
1800.00	0.17616	5.61287	14.84394	83.31719	1.69149	5.31668	0.00893327	9.26763
2000.00	0.17273	5.78924	17.84294	103.29719	1.85537	5.86599	0.00547213	11.08651
2200.00	0.16841	5.93786	21.11160	125.35829	2.03657	6.38776	0.00345327	13.07202
2400.00	0.16476	6.06935	24.65718	149.65311	2.23514	6.87526	0.00224054	15.21217
2600.00	0.16172	6.18356	28.48406	176.13349	2.45106	7.33498	0.00148998	17.51417
2800.00	0.15922	6.28066	32.59550	204.72176	2.68427	7.76991	0.00101289	19.98674
3000.00	0.15708	6.36005	36.99218	235.51297	2.93481	8.18185	0.00070276	22.62678
3200.00	0.15532	6.43650	41.66449	268.38553	3.20263	8.57330	0.00049653	25.44379
3400.00	0.15382	6.50110	46.66557	303.37746	3.48775	8.94584	0.00035676	28.43771
3600.00	0.15254	6.55581	51.93993	340.50816	3.79015	9.30096	0.00026032	31.60672
3800.00	0.15143	6.60380	57.50866	379.77557	4.10985	9.64009	0.00019267	34.95083
4000.00	0.15046	6.64618	63.37266	421.18607	4.44685	9.96448	0.00014448	38.47090
4200.00	0.14962	6.68339	69.53247	464.71285	4.80113	10.27532	0.00010965	42.16979
4400.00	0.14889	6.71652	75.98879	510.38049	5.17271	10.57357	0.00008415	46.04488
4600.00	0.14824	6.74576	82.74189	558.15794	5.56155	10.86020	0.00006525	50.10004
4800.00	0.14767	6.77198	89.79231	608.07150	5.96769	11.13598	0.00005109	54.33261
5000.00	0.14716	6.79539	97.14026	660.10599	6.39112	11.40169	0.00004036	58.74434
5200.00	0.14670	6.81650	104.78605	714.27407	6.83183	11.65798	0.00003215	63.33418
5400.00	0.14629	6.83557	112.72989	770.57308	7.28983	11.90546	0.00002561	68.10235
5600.00	0.14593	6.85276	120.97189	828.99197	7.76512	12.14472	0.00002087	73.05011
5800.00	0.14559	6.86837	129.51224	889.53826	8.25769	12.37624	0.00001699	78.17670
6000.00	0.14530	6.88247	138.35097	952.19966	8.76753	12.60052	0.00001393	83.48368

T1 = 100.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.24296	4.11587	3.81472	15.70912	1.11450	1.82554	0.20390050	2.48450
1000.00	0.22091	4.53911	5.43332	24.66241	1.16090	2.03424	0.10063285	3.50407
1200.00	0.20632	4.84682	7.36493	35.68190	1.20214	2.18857	0.05248460	4.71344
1400.00	0.19548	5.10251	9.58761	48.91987	1.23335	2.07021	0.02865914	6.06909
1600.00	0.18774	5.32641	12.03400	64.09795	1.46955	2.70465	0.01660387	7.59981
1800.00	0.18165	5.52322	14.75496	81.51672	1.59384	2.29503	0.00993002	9.25287
2000.00	0.17589	5.69189	17.74490	101.01337	1.73705	2.84701	0.00613964	11.07693
2200.00	0.17126	5.83918	21.00500	122.65229	1.79325	2.36442	0.00391211	13.05472
2400.00	0.16749	5.97033	24.53659	146.50947	2.16446	2.85146	0.00256182	15.18845
2600.00	0.16455	6.07736	28.33823	172.31247	2.22305	2.30990	0.00171691	17.50201
2800.00	0.16211	6.17239	32.45181	200.30353	2.43151	2.74379	0.00117655	19.97392
3000.00	0.15996	6.25535	36.83728	230.43025	2.60745	2.15460	0.00082249	22.61435
3200.00	0.15810	6.32514	41.51160	262.56662	2.74982	2.54543	0.00058527	25.43618
3400.00	0.15658	6.38656	46.47719	296.82932	3.14405	2.91795	0.00042345	28.42922
3600.00	0.15527	6.44039	51.70527	333.19554	3.42471	2.27112	0.00031106	31.59682
3600.00	0.15416	6.48081	57.20453	371.60647	3.66027	2.66942	0.00023167	34.94365
4000.00	0.15319	6.52787	63.13262	412.11916	3.97073	2.93299	0.00017477	38.46637
4200.00	0.15234	6.56435	69.27502	454.73259	4.27761	10.24297	0.00013341	42.16509
4400.00	0.15156	6.59016	75.70412	499.39494	4.59637	10.54148	0.00010296	46.04498
4600.00	0.15085	6.62471	82.44163	546.15083	4.93159	10.82851	0.00008026	50.10145
4800.00	0.15037	6.65027	89.46697	594.99954	5.28167	11.10133	0.00006317	54.33550
5000.00	0.14986	6.67304	96.79517	645.91762	5.64657	11.36658	0.00005015	58.74952
5200.00	0.14940	6.69358	104.41733	698.92838	6.02644	11.62168	0.00004014	63.34127
5400.00	0.14899	6.71203	112.33658	754.00637	6.42120	11.86760	0.00003237	68.11289
5600.00	0.14862	6.72879	120.55516	811.17736	6.83087	12.10725	0.00002630	73.06263
5800.00	0.14828	6.74391	129.06709	870.41695	7.25543	12.33413	0.00002151	78.19257
6000.00	0.14798	6.75771	137.87463	931.74416	7.69489	12.56175	0.00001770	83.50105

T1 = 100.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.24692	4.05971	3.78845	15.37999	1.10049	1.80816	0.21335884	2.47407
1000.00	0.22383	4.47769	5.39238	24.14540	1.15883	2.61629	0.10670624	3.48969
1200.00	0.20976	4.77884	7.30862	34.92771	1.23015	3.36361	0.05631189	4.69636
1400.00	0.19868	5.02820	9.58774	47.75671	1.31469	4.04998	0.03130775	6.06441
1600.00	0.19073	5.24576	11.45560	62.73715	1.41239	4.66417	0.01820059	7.56096
1800.00	0.18491	5.43461	14.67486	79.74672	1.52327	5.27413	0.01096871	9.24263
2000.00	0.17986	5.60349	17.65216	98.91364	1.64736	5.82444	0.00666332	11.05616
2200.00	0.17379	5.74755	20.69942	120.12044	1.78454	6.34066	0.00441281	13.02941
2400.00	0.17062	5.87123	24.42155	143.38451	1.93498	6.82664	0.00291254	15.17524
2600.00	0.16754	5.97572	28.22283	168.65164	2.09836	7.28509	0.00196781	17.46796
2800.00	0.16450	6.06813	32.30505	196.04935	2.27495	7.71805	0.00135883	19.96089
3000.00	0.16214	6.14846	36.67965	225.52337	2.46469	8.12518	0.00095680	22.60297
3200.00	0.16006	6.21660	41.35423	256.98931	2.66747	8.51786	0.00068561	25.42557
3400.00	0.15933	6.27642	46.28520	290.53034	2.88335	8.88648	0.00049936	28.41962
3600.00	0.15682	6.32832	51.50159	326.10161	3.11235	9.24161	0.00036912	31.59090
3800.00	0.15668	6.37436	57.16682	363.75176	3.35444	9.57911	0.00027662	34.93468
4000.00	0.15571	6.41396	62.49211	403.38726	3.60961	9.90189	0.00020988	38.46116
4200.00	0.15516	6.44930	69.01370	445.08991	3.87788	10.21107	0.00016112	42.16251
4400.00	0.15431	6.48040	75.42983	488.81512	4.15924	10.50776	0.00012501	46.04349
4600.00	0.15385	6.50833	82.14123	534.60246	4.45369	10.79279	0.00009796	50.10043
4800.00	0.15317	6.53309	89.14798	582.41131	4.76122	11.06707	0.00007748	54.33731
5000.00	0.15255	6.55514	96.45540	632.24572	5.08185	11.33133	0.00006180	58.75410
5200.00	0.15219	6.57513	104.04494	684.13510	5.41556	11.58619	0.00004970	63.34811
5400.00	0.15157	6.59307	111.94763	738.05174	5.76237	11.83230	0.00004027	68.12207
5600.00	0.15130	6.60939	120.13477	794.01748	6.12225	12.07019	0.00003285	73.07402
5800.00	0.15097	6.62404	128.62260	851.99954	6.49524	12.30042	0.00002698	78.20705
6000.00	0.15056	6.63748	137.40458	912.03307	6.88131	12.52340	0.00002230	83.51798

T1 = 100.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.24976	4.00543	3.76059	15.06278	1.08950	1.78703	0.22264772	2.46405
1000.00	0.22652	4.41645	5.35195	23.64731	1.14151	2.59659	0.11268677	3.47542
1200.00	0.21215	4.71371	7.25425	34.20386	1.20511	3.34385	0.06025733	4.67893
1400.00	0.20175	4.95664	9.44114	46.79142	1.28043	4.03004	0.03385772	6.04562
1600.00	0.19349	5.16610	11.86562	61.42610	1.36752	4.66380	0.01968067	7.56197
1800.00	0.18678	5.35382	14.56497	78.11200	1.46638	5.25272	0.01212172	9.22400
2000.00	0.18130	5.51574	17.55733	96.84170	1.57698	5.80268	0.00763684	11.04116
2200.00	0.17668	5.65366	20.79306	117.55729	1.69929	6.31862	0.00495080	13.01829
2400.00	0.17312	5.77646	24.30402	140.39111	1.83334	6.80307	0.00329555	15.15889
2600.00	0.17010	5.87869	28.09308	165.15669	1.97900	7.26045	0.00224415	17.46770
2800.00	0.16757	5.96781	32.16487	191.95382	2.13648	7.69265	0.00156087	19.94717
3000.00	0.16541	6.04563	36.52240	220.80106	2.30569	8.10191	0.00110675	22.59072
3200.00	0.16350	6.11232	41.16730	251.62770	2.48637	8.49060	0.00079843	25.41325
3400.00	0.16185	6.17090	46.10176	284.48932	2.67886	8.86027	0.00058528	28.40661
3600.00	0.16074	6.22141	51.32667	319.32469	2.88300	9.21271	0.00043529	31.57860
3800.00	0.15971	6.26513	56.84307	356.12696	3.09881	9.54933	0.00032807	34.93041
4000.00	0.15882	6.30423	62.65236	394.97497	3.32631	9.87117	0.00025035	38.45500
4200.00	0.15777	6.33839	68.75469	435.79404	3.56545	10.17957	0.00019321	42.15950
4400.00	0.15701	6.36895	75.15096	478.63235	3.81630	10.47541	0.00015069	46.04017
4600.00	0.15636	6.39568	81.84117	523.42950	4.07879	10.75975	0.00011867	50.10251
4800.00	0.15577	6.41985	88.82414	570.25051	4.35297	11.03326	0.00009431	54.34088
5000.00	0.15525	6.44142	96.10590	619.05811	4.63861	11.29676	0.00007558	58.75872
5200.00	0.15478	6.46081	103.68877	669.86135	4.93632	11.55091	0.00006105	63.35561
5400.00	0.15436	6.47831	111.55095	722.66147	5.24553	11.79633	0.00004968	68.13131
5600.00	0.15398	6.49414	119.71060	777.45666	5.56634	12.03355	0.00004070	73.08619
5800.00	0.15365	6.50845	128.17782	834.23937	5.89886	12.26311	0.00003356	78.22106
6000.00	0.15334	6.52157	136.93467	893.03069	6.24304	12.48545	0.00002784	83.53391

T1 = 100.00 ALPHA = 1.00

UN1	U2/C1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.252[illegible]	3.95293	3.73[illegible]13	14.75676	1.[illegible]8065	1.76617	0.23235561	2.45441
1000.00	0.229[illegible]9	4.36124	5.31[illegible]02	23.16696	1.12[illegible]5	2.57715	0.11916576	3.46130
1200.00	0.215[illegible]1	4.65102	7.29419	33.50657	1.18491	3.32433	0.06431412	4.66143
1400.00	0.204[illegible]0	4.88763	9.37[illegible]99	45.83[illegible]2	1.25284	4.01039	0.03650640	6.02686
1600.00	0.196[illegible]4	5.09319	11.41[illegible]04	60.16[illegible]3	1.3313[illegible]	4.64375	0.02164324	7.52779
1800.00	0.189[illegible]2	5.27376	14.50[illegible]10	76.50[illegible]0	1.42054	5.23205	0.01331780	9.20627
2000.00	0.184[illegible]2	5.43116	17.46266	94.84356	1.52029	5.78126	0.00846354	11.04131
2200.00	0.179[illegible]2	5.56736	20.[illegible]8796	115.17[illegible]1	1.[illegible]3061	6.29598	0.00553400	12.99671
2400.00	0.175[illegible]1	5.68472	24.18[illegible]74	137.49466	1.75153	6.77991	0.00371159	15.14067
2600.00	0.172[illegible]8	5.78450	27.96341	161.75429	1.[illegible]8294	7.23636	0.00254645	17.45094
2800.00	0.170[illegible]2	5.87141	32.[illegible]2213	188.01521	2.[illegible]2492	7.66756	0.00178386	19.92997
3000.00	0.168[illegible]6	5.94661	36.36551	216.25141	2.17745	8.07599	0.00127334	22.57776
3200.00	0.166[illegible]4	6.01187	40.[illegible]9573	246.46[illegible]2	2.34052	8.46370	0.00092461	25.40020
3400.00	0.164[illegible]0	6.06786	45.[illegible]1415	278.59[illegible]6	2.51412	8.83265	0.00068187	28.39986
3600.00	0.163[illegible]8	6.11698	51.12[illegible]53	312.71563	2.69825	9.18421	0.00051012	31.57329
3800.00	0.162[illegible]3	6.16014	56.[illegible]2161	348.79826	2.[illegible]9291	9.51966	0.00038668	34.92351
4000.00	0.161[illegible]4	6.19822	62.41[illegible]65	386.84865	3.[illegible]9810	9.84[illegible]67	0.00029667	38.44958
4200.00	0.160[illegible]8	6.23146	68.[illegible]4[illegible]04	426.83039	3.31381	10.14845	0.00023015	42.15569
4400.00	0.159[illegible]2	6.26100	74.[illegible]7217	468.77487	3.54065	10.44353	0.00018040	46.03947
4600.00	0.159[illegible]5	6.28739	81.54167	512.66[illegible]6	3.77682	10.72703	0.00014276	50.10074
4800.00	0.158[illegible]6	6.31067	88.[illegible]0465	558.52326	4.[illegible]2411	10.99982	0.00011398	54.34322
5000.00	0.157[illegible]4	6.33167	95.76170	606.33197	4.28193	11.26259	0.00009175	58.76319
5200.00	0.157[illegible]7	6.35055	103.[illegible]1274	656.09387	4.55028	11.51603	0.00007443	63.36208
5400.00	0.157[illegible]4	6.36766	111.15867	707.80229	4.[illegible]2915	11.76074	0.00006082	68.13895
5600.00	0.156[illegible]7	6.38296	119.29[illegible]76	761.47983	5.11854	11.99731	0.00005003	73.09764
5800.00	0.156[illegible]3	6.39692	127.73764	817.10147	5.41844	12.22621	0.00004142	78.23462
6000.00	0.156[illegible]1	6.40964	136.46[illegible]38	874.68[illegible]7[illegible]	5.72891	12.44791	0.00003449	83.55055

T1 = 150.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.24429	4.09342	2.98456	12.23344	2.99703	1.33927	0.26203806	1.91488
1000.00	0.21401	4.67270	4.12131	19.25769	4.16642	2.04572	0.12928721	2.60449
1200.00	0.19538	5.11621	5.45324	27.91084	5.59603	2.72560	0.06550694	3.41163
1400.00	0.18217	5.48938	6.90427	38.22956	7.28822	3.36884	0.03442946	4.31859
1600.00	0.17258	5.80122	8.54762	50.16641	9.24263	3.97632	0.01875445	5.32698
1800.00	0.16449	6.07926	10.50431	63.87079	11.46071	4.54764	0.01059216	6.41662
2000.00	0.15641	6.31263	12.54554	79.18276	13.94053	5.08760	0.00617283	7.61915
2200.00	0.15306	6.50770	14.70795	96.07936	16.68181	5.59831	0.00370413	8.93489
2400.00	0.14959	6.68036	17.17257	114.71936	19.68569	6.08155	0.00228691	10.35292
2600.00	0.14646	6.82771	19.77198	134.99736	22.95115	6.53747	0.00144815	11.86112
2800.00	0.14384	6.95195	22.56451	156.86726	26.47794	6.97125	0.00093648	13.52513
3000.00	0.14165	7.05970	25.55249	180.39286	30.26635	7.38331	0.00062154	15.26382
3200.00	0.13970	7.15291	28.73739	205.55606	34.31627	7.77549	0.00041990	17.15523
3400.00	0.13804	7.23356	32.12183	232.34426	38.62757	8.14936	0.00028892	19.14404
3600.00	0.13661	7.30428	35.70239	260.76019	43.20038	8.50626	0.00020219	21.24740
3800.00	0.13537	7.36544	39.48109	290.81744	48.03441	8.84765	0.00014371	23.47120
4000.00	0.13428	7.41971	43.46027	322.50695	53.12995	9.17457	0.00010364	25.81055
4200.00	0.13332	7.46740	47.64524	355.81504	58.48691	9.48809	0.00007575	28.26565
4400.00	0.13316	7.50949	52.03349	390.74436	64.10495	9.78922	0.00005605	30.84559
4600.00	0.13250	7.54720	56.61916	427.31627	69.98606	10.07875	0.00004196	33.55966
4800.00	0.13192	7.58063	61.40464	465.50116	76.12547	10.35756	0.00003175	36.35344
5000.00	0.13139	7.61075	66.49118	505.32505	82.52775	10.62630	0.00002427	39.28494
5200.00	0.13093	7.63774	71.58786	546.76947	89.19135	10.88567	0.00001872	42.33573
5400.00	0.13051	7.66206	76.98165	589.83945	96.11625	11.13625	0.00001457	45.50547
5600.00	0.13014	7.68416	82.57732	634.54521	103.30254	11.37858	0.00001144	48.79348
5800.00	0.12980	7.70408	88.37724	680.86536	110.75015	11.61318	0.00000905	52.20140
6000.00	0.12950	7.72222	94.37868	728.81422	118.45903	11.84049	0.00000721	55.72822

T1 = 150.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.24850	4.02410	2.48723	11.94045	1.58588	1.31929	0.27473007	1.90903
1000.00	0.21771	4.59323	3.49477	18.79446	1.92944	2.02375	0.13701281	2.59646
1200.00	0.19854	5.02916	5.01613	27.23888	2.34744	2.70234	0.07096802	3.40231
1400.00	0.18548	5.39126	6.42242	37.30999	2.74656	3.34442	0.03701108	4.30877
1600.00	0.17542	5.70045	8.59784	49.01049	3.42094	3.94996	0.02089707	5.29790
1800.00	0.16752	5.96576	10.44436	62.33776	4.17241	4.52094	0.01194670	6.41077
2000.00	0.16136	6.18873	12.47227	77.23088	4.99085	5.06433	0.00704444	7.61791
2200.00	0.15658	6.38657	14.69615	93.63887	5.87655	5.56879	0.00428153	8.92007
2400.00	0.15287	6.54996	17.09858	111.96229	6.80396	6.05154	0.00260720	10.34763
2600.00	0.14990	6.69329	19.66476	131.75579	7.74844	6.56436	0.00170942	11.87601
2800.00	0.14673	6.81547	22.48170	153.13464	8.76473	6.93490	0.00111916	13.51813
3000.00	0.14492	6.91946	25.44724	176.08181	9.59786	7.35003	0.00074823	15.27891
3200.00	0.14284	7.01064	28.52243	200.56144	10.78774	7.74113	0.00051015	17.15001
3400.00	0.14117	7.08883	31.79469	226.68826	12.15452	8.11405	0.00035407	19.14074
3600.00	0.13971	7.15775	35.26093	254.37245	13.59813	8.47862	0.00024986	21.24508
3800.00	0.13855	7.21751	38.83815	283.98697	14.81851	8.81147	0.00017902	23.46923
4000.00	0.13755	7.26991	42.58167	314.63142	15.91565	9.13451	0.00013009	25.81105
4200.00	0.13668	7.31656	46.47137	347.36345	17.08965	9.44915	0.00009578	28.26918
4400.00	0.13591	7.35755	50.54719	381.46819	18.34241	9.74944	0.00007138	30.84727
4600.00	0.13525	7.39391	54.81192	417.15611	21.26795	10.03420	0.00005380	33.54413
4800.00	0.13465	7.42654	59.19749	454.44459	23.17230	10.31121	0.00004097	36.35869
5000.00	0.13412	7.45580	64.16627	493.32254	24.95344	10.58420	0.00003152	39.29197
5200.00	0.13365	7.48205	71.34420	533.78611	26.91137	10.84284	0.00002446	42.34423
5400.00	0.13323	7.50573	76.71964	575.83857	28.94603	11.09270	0.00001915	45.51542
5600.00	0.13285	7.52717	82.29933	619.46123	31.05754	11.33484	0.00001512	48.80540
5800.00	0.13251	7.54657	88.08773	664.70742	33.24587	11.56827	0.00001202	52.21487
6000.00	0.13220	7.56425	94.08516	711.52531	35.51093	11.79492	0.00000963	55.74315

T1 = 150.00 ALPHA = 0.20

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.25268	3.95764	2.94819	11.65999	1.34266	1.29962	0.28740005	1.90317
1000.00	0.22183	4.51207	4.06220	18.32892	1.54383	2.00308	0.14634452	2.59157
1200.00	0.20225	4.94432	5.37647	26.59776	1.78968	2.67935	0.07648879	3.39259
1400.00	0.18877	5.29737	6.87663	36.42910	2.06103	3.32036	0.04135323	4.29879
1600.00	0.17861	5.59869	8.54749	47.85475	2.41742	3.92476	0.02315643	5.29150
1800.00	0.17074	5.85696	10.39251	60.86859	2.79902	4.49462	0.01340382	6.40228
2000.00	0.16453	6.07807	12.41595	75.46567	3.22577	5.03230	0.00800197	7.60584
2200.00	0.15957	6.26277	14.62177	91.57285	3.69754	5.54076	0.00491267	8.91847
2400.00	0.15565	6.42487	17.01477	109.31776	4.21448	6.02097	0.00309918	10.34247
2600.00	0.15253	6.56469	19.59778	128.65720	4.77659	6.47562	0.00200358	11.87117
2800.00	0.14993	6.68310	22.37287	149.52046	5.38359	6.90718	0.00132431	13.51438
3000.00	0.14786	6.78627	25.34243	171.98069	6.03555	7.31702	0.00089376	15.27056
3200.00	0.14619	6.87351	28.50747	195.94655	6.73255	7.70731	0.00061461	17.14664
3400.00	0.14368	6.95006	31.86962	221.49634	7.47458	8.07920	0.00043017	19.13697
3600.00	0.14291	7.01716	35.42973	248.61597	8.26161	8.43421	0.00030600	21.24288
3800.00	0.14134	7.07507	39.18828	277.25998	9.09361	8.77378	0.00022092	23.46870
4000.00	0.14032	7.12634	43.14511	307.47381	9.97061	9.09890	0.00016172	25.81082
4200.00	0.13944	7.17156	47.30060	339.24147	10.89259	9.41070	0.00011991	28.27078
4400.00	0.13866	7.21172	51.66514	372.56576	11.85956	9.71012	0.00008997	30.84902
4600.00	0.13799	7.24709	56.21892	407.42366	12.87153	9.99808	0.00006825	33.54721
4800.00	0.13738	7.27883	60.97234	443.84390	13.92843	10.27531	0.00005231	36.36320
5000.00	0.13685	7.30723	65.93455	481.81372	15.03034	10.54256	0.00004048	39.29817
5200.00	0.13637	7.33286	71.09677	521.34459	16.17724	10.80044	0.00003161	42.35132
5400.00	0.13595	7.35581	76.45802	562.41059	17.36910	11.04961	0.00002489	45.52476
5600.00	0.13556	7.37665	82.02053	605.03676	18.60595	11.29056	0.00001975	48.81656
5800.00	0.13522	7.39557	87.78438	649.21520	19.88778	11.52381	0.00001579	52.22741
6000.00	0.13490	7.41277	93.74964	694.94473	21.21459	11.74981	0.00001271	55.75742

T1 = 150.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	S2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.25[illegible]2	3.69382	2.42[illegible]44	11.39112	1.24182	1.28[illegible]26	1.30002867	1.89735
1000.00	0.225[illegible]3	4.44386	4.13562	17.92[illegible]	1.[illegible]6408	1.98[illegible]67	1.15525942	2.58646
1200.00	0.205[illegible]3	4.86301	5.[illegible]4	25.98[illegible]	1.55760	2.65[illegible]68	1.08223539	3.36279
1400.00	0.192[illegible]3	5.20755	6.[illegible]52	35.58554	1.76863	3.29461	1.04505297	4.28854
1600.00	0.181[illegible]7	5.49643	8.[illegible]64	46.7221[illegible]	2.[illegible]132	3.9[illegible]36	1.02553609	5.26804
1800.00	0.173[illegible]3	5.75259	10.[illegible]93	59.45[illegible]	2.[illegible]7103	4.46[illegible]0	1.01491441	6.30920
2000.00	0.16[illegible]79	5.96711	12.[illegible]58	73.70[illegible]5	2.[illegible]7265	5.0[illegible]567	1.00913425	7.59904
2200.00	0.16[illegible]25	6.15193	14.[illegible]44	89.51942	2.[illegible]61[illegible]	5.51[illegible]4	1.00561046	8.90408
2400.00	0.156[illegible]0	6.30527	16.[illegible]20	106.78[illegible]5	3.27144	5.99175	1.00357332	10.33576
2600.00	0.155[illegible]3	6.44201	18.[illegible]03	125.69[illegible]5	3.[illegible]6[illegible]5	6.44[illegible]25	1.00233276	11.86202
2800.00	0.15231	6.55677	22.[illegible]31	146.06[illegible]4	4.[illegible]976[illegible]	6.[illegible]7561	1.00155612	13.50905
3000.00	0.15023	6.65048	23.[illegible]47	167.99[illegible]6	4.[illegible]5454	7.28471	1.00105938	15.20705
3200.00	0.148[illegible]9	6.74349	25.[illegible]00	191.46[illegible]5	5.[illegible]5122	7.67371	1.00073484	17.13893
3400.00	0.146[illegible]9	6.81727	27.[illegible]91	216.41[illegible]2	5.57567	8.04473	1.00051041	19.13204
3600.00	0.145[illegible]07	6.88239	29.[illegible]83	242.90[illegible]6	6.13194	8.39[illegible]62	1.00035159	21.23992
3800.00	0.14412	6.93862	30.[illegible]63	270.86[illegible]9	6.71995	8.73749	1.00027025	23.40679
4000.00	0.143[illegible]9	6.98654	32.[illegible]31	300.41137	7.33984	9.[illegible]6175	1.00019923	25.61004
4200.00	0.142[illegible]0	7.03243	47.[illegible]69	331.44[illegible]3	7.99144	9.37269	1.00014872	28.27213
4400.00	0.141[illegible]1	7.07150	52.[illegible]21	364.01114	8.67496	9.67127	1.00011231	30.85106
4600.00	0.14072	7.10623	50.[illegible]12	398.08[illegible]5	9.[illegible]902[illegible]	9.95[illegible]40	1.00008574	33.54948
4800.00	0.14012	7.13692	60.[illegible]93	433.66[illegible]3	10.13723	10.23[illegible]84	1.00006611	36.36[illegible]00
5000.00	0.13957	7.16466	65.[illegible]03	470.76[illegible]2	10.91505	10.50135	1.00005145	39.30372
5200.00	0.139[illegible]9	7.18952	71.[illegible]45	509.38[illegible]3	11.72068	10.75[illegible]52	1.00004040	42.35912
5400.00	0.13860	7.21186	76.[illegible]36	549.51[illegible]3	12.56904	11.00[illegible]97	1.00003198	45.53392
5600.00	0.13827	7.23223	81.[illegible]93	591.17397	13.[illegible]4434	11.24723	1.00002552	48.82696
5800.00	0.13792	7.25059	87.[illegible]23	634.34[illegible]95	14.[illegible]3931	11.47[illegible]0	1.00002050	52.23958
6000.00	0.137[illegible]0	7.26722	93.[illegible]23	679.01[illegible]6	15.28704	11.70517	1.00001659	55.77228

T1 = 150.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.26073	3.83244	2.90495	11.13315	1.10664	1.26121	0.31259826	1.89159
1000.00	0.22861	4.37418	4.00505	17.51079	1.29657	1.95476	0.16415918	2.57213
1200.00	0.20879	4.78490	5.30491	25.39363	1.43094	2.63435	0.08613670	3.37302
1400.00	0.19526	5.12131	6.79148	34.77616	1.54996	3.27621	0.04690393	4.27825
1600.00	0.18473	5.40734	8.44769	45.68056	1.77373	3.87550	0.02606563	5.27917
1800.00	0.17641	5.65248	10.27659	58.10519	1.98215	4.44315	0.01462947	6.37676
2000.00	0.17038	5.86223	12.28519	72.04289	2.21529	4.97459	0.01015028	7.58597
2200.00	0.16558	6.03920	14.48161	87.45216	2.47305	5.46455	0.00636621	8.89974
2400.00	0.16191	6.19139	16.85793	104.37486	2.75543	5.96280	0.00439620	10.32501
2600.00	0.15912	6.32434	19.42451	122.84719	3.06251	6.41525	0.00260905	11.85368
2800.00	0.15598	6.43574	22.18198	142.75756	3.39413	6.84460	0.00181640	13.50305
3000.00	0.15367	6.53297	25.13267	164.19220	3.75037	7.25205	0.00124710	15.26067
3200.00	0.15114	6.61652	28.27764	187.10410	4.13120	7.64062	0.00087191	17.13690
3400.00	0.14949	6.68955	31.61974	211.52180	4.53662	8.01071	0.00061996	19.12750
3600.00	0.14809	6.75279	35.15780	237.41385	4.96662	8.36588	0.00044766	21.23660
3800.00	0.14669	6.80759	38.89418	264.78678	5.42119	8.70103	0.00032787	23.46459
4000.00	0.14545	6.85648	42.82978	293.64096	5.90035	9.02494	0.00024336	25.80778
4200.00	0.14474	6.89917	46.95970	323.97619	6.40407	9.33505	0.00018284	28.27114
4400.00	0.14416	6.93685	51.28944	355.78699	6.93234	9.63267	0.00013894	30.85336
4600.00	0.14346	6.97066	55.81442	389.09845	7.48534	9.91918	0.00010670	33.55276
4800.00	0.14264	7.00071	60.54074	423.86422	8.06277	10.19486	0.00008275	36.37167
5000.00	0.14230	7.02752	65.47762	460.14557	8.66461	10.46061	0.00006477	39.31012
5200.00	0.14181	7.05182	70.60833	497.90321	9.29144	10.71703	0.00005113	42.36635
5400.00	0.14147	7.07364	75.93499	537.13596	9.94264	10.96476	0.00004069	45.54222
5600.00	0.14098	7.09325	81.46243	577.84027	10.61841	11.20435	0.00003263	48.83817
5800.00	0.14062	7.11121	87.19216	620.04133	11.31876	11.43625	0.00002635	52.25210
6000.00	0.14030	7.12746	93.12104	663.71687	12.04363	11.66095	0.00002141	55.78601

T1 = 150.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.26512	3.77332	2.85174	10.88[illegible]	1.15183	1.24247	0.32509271	1.88590
1000.00	0.23217	4.30726	3.37[illegible]80	17.12913	1.24141	1.93[illegible]98	0.17315897	2.56377
1200.00	0.21253	4.70971	3.97[illegible]06	24.82517	1.35085	2.61[illegible]37	0.09418163	3.36335
1400.00	0.19848	5.03829	4.74[illegible]68	33.99677	1.46044	3.25[illegible]19	0.05286498	4.25806
1600.00	0.18806	5.31742	5.59[illegible]46	44.65817	1.56010	3.85[illegible]39	0.03071326	5.26937
1800.00	0.18[illegible]8	5.55310	1[illegible].24314	56.77[illegible]48	1.79969	4.41[illegible]50	0.01[illegible]9029	6.36892
2000.00	0.17397	5.75807	12.22564	70.39[illegible]2[illegible]	1.86984	4.95[illegible]73	0.01134393	7.57826
2200.00	0.16850	5.93125	14.41[illegible]00	85.46[illegible]30	2.19969	5.45744	0.00718056	8.89506
2400.00	0.16458	6.08354	16.70[illegible]09	102.08[illegible]34	2.42993	5.93399	0.00467051	10.31161
2600.00	0.16099	6.21169	19.33[illegible]26	120.12[illegible]34	2.68[illegible]15	6.38558	0.00311454	11.84375
2800.00	0.15824	6.31947	22.18[illegible]85	139.57[illegible]12	2.95[illegible]31	6.81419	0.00210696	13.49522
3000.00	0.15599	6.41487	25.[illegible]2[illegible]56	160.55[illegible]41	3.24[illegible]34	7.22[illegible]92	0.00145852	15.25207
3200.00	0.15394	6.49600	28.[illegible]6414	182.9543	3.55[illegible]87	7.60[illegible]13	0.00102762	17.13046
3400.00	0.15210	6.56616	31.49493	206.80[illegible]84	3.[illegible]8114	7.97719	0.00073000	19.12475
3600.00	0.15058	6.62783	35.[illegible]2200	232.1197[illegible]	4.23154	8.32941	0.00053523	21.23442
3800.00	0.14967	6.66156	38.74[illegible]89	258.85[illegible]41	4.[illegible]4191	8.[illegible]6[illegible]28	0.00039470	23.45245
4000.00	0.14861	6.72890	42.[illegible]6723	287.10[illegible]3[illegible]	4.79[illegible]32	8.98[illegible]67	0.[illegible]0[illegible]25465	25.80792
4200.00	0.14770	6.77046	46.70[illegible]41	316.76[illegible]45	5.[illegible]2[illegible]75	9.29793	0.00[illegible]2292	28.27250
4400.00	0.14690	6.80738	51.10[illegible]86	347.88[illegible]10	5.[illegible]8321	9.59489	0.00017842	30.85512
4600.00	0.14619	6.84041	55.61[illegible]93	380.46[illegible]2[illegible]	6.20[illegible]7[illegible]	9.[illegible]0[illegible]39	0.00013164	33.55533
4800.00	0.14557	6.86950	60.[illegible]3[illegible]65	414.46[illegible]9[illegible]	6.7542[illegible]	10.15561	0.00[illegible]9260	36.37648
5000.00	0.14502	6.89574	65.24[illegible]42	449.93[illegible]35	7.24474	10.42[illegible]29	0.00006[illegible]78	39.31563
5200.00	0.14452	6.91932	70.[illegible]3[illegible]35	486.85[illegible]2[illegible]	7.75529	10.67599	0.00004411	42.37384
5400.00	0.14408	6.94058	75.[illegible]7[illegible]57	525.21[illegible]4[illegible]	8.28[illegible]8[illegible]	10.92301	0.00003127	45.55119
5600.00	0.14368	6.95980	81.[illegible]5[illegible]19	565.03[illegible]2[illegible]	8.[illegible]3[illegible]4[illegible]	11.16[illegible]89	0.00[illegible]4131	48.84784
5800.00	0.14333	6.97713	87.[illegible]9[illegible]27	606.28[illegible]5[illegible]	9.4[illegible]71[illegible]	11.39[illegible]15	0.00[illegible]3351	52.26468
6000.00	0.14300	6.99303	92.80701	649.00[illegible]2[illegible]	9.9[illegible]77[illegible]	11.61718	0.00[illegible]2737	55.79970

T1 = 150.00 ALPHA = 0.60

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.269[illegible]8	3.71632	2.86479	10.64[illegible]	1.12787	1.22404	0.33749746	1.88031
1000.00	0.235[illegible]9	4.24290	3.[illegible]	16.75[illegible]	1.[illegible]	1.91[illegible]47	0.18223950	2.55542
1200.00	0.215[illegible]6	4.63261	5.23[illegible]	24.25[illegible]	1.[illegible]	2.59[illegible]65	0.10027850	3.35749
1400.00	0.201[illegible]7	4.95062	6.70[illegible]17	33.24[illegible]	1.[illegible]	3.22[illegible]48	0.05703842	4.25769
1600.00	0.19119	5.23026	8.34[illegible]21	43.66[illegible]	1.53124	3.82777	0.03348287	5.25598
1800.00	0.183[illegible]2	5.46381	10.16757	55.55365	1.[illegible]44[illegible]	4.39315	0.02027348	6.35370
2000.00	0.17658	5.66301	12.16727	68.88071	1.[illegible]3469	4.92641	0.01263041	7.50361
2200.00	0.171[illegible]3	5.83315	14.34[illegible]31	83.64922	2.[illegible]1169	5.42[illegible]65	0.00[illegible]7976	8.68095
2400.00	0.167[illegible]3	5.97607	16.70[illegible]93	99.81195	2.20291	5.90617	0.00529455	10.30538
2600.00	0.163[illegible]9	6.10172	19.25[illegible]95	117.47[illegible]7	2.[illegible]1593	6.35456	0.00355019	11.86733
2800.00	0.161[illegible]9	6.20755	21.99[illegible]91	136.515[illegible]9	2.[illegible]4463	6.7[illegible]400	0.00242953	13.46747
3000.00	0.158[illegible]2	6.30040	24.92[illegible]31	157.03[illegible]5	2.[illegible]8967	7.16[illegible]71	0.00169499	15.24667
3200.00	0.156[illegible]5	6.37940	28.[illegible]03	178.94225	3.[illegible]514[illegible]	7.57[illegible]94	0.00120314	17.12583
3400.00	0.155[illegible]7	6.44664	31.37[illegible]56	202.29[illegible]4	3.[illegible]8[illegible]3	7.94[illegible]91	0.00086[illegible]98	19.11614
3600.00	0.153[illegible]6	6.50754	34.[illegible]8[illegible]48	227.03540	3.72559	8.29532	0.00063544	21.23130
3800.00	0.15243	6.56026	38.[illegible]9[illegible]77	253.21795	4.[illegible]379[illegible]	8.63119	0.00047167	23.46834
4000.00	0.151[illegible]7	6.60032	42.[illegible]1[illegible]93	280.82115	4.[illegible]6727	8.95[illegible]01	0.00035456	25.80714
4200.00	0.150[illegible]4	6.64707	46.[illegible]1[illegible]43	309.84[illegible]9	4.71[illegible]34[illegible]	9.26116	0.00026968	28.27162
4400.00	0.149[illegible]3	6.68313	50.[illegible]1[illegible]57	340.29541	5.[illegible]7653[illegible]	9.55[illegible]2[illegible]	0.00020736	30.85504
4600.00	0.148[illegible]2	6.71493	55.42[illegible]57	372.14541	5.[illegible]3657	9.84[illegible]04	0.00016106	33.55640
4800.00	0.148[illegible]9	6.74335	60.[illegible]2[illegible]78	405.41[illegible]4[illegible]	5.[illegible]5345	10.11[illegible]16	0.00012628	36.36858
5000.00	0.147[illegible]4	6.76686	65.[illegible]1[illegible]67	440.10[illegible]63	5.[illegible]7[illegible]22	10.38[illegible]40	0.00009989	39.32126
5200.00	0.147[illegible]4	6.79180	70.11[illegible]53	476.21762	5.[illegible]9781	10.63[illegible]53	0.00007966	42.38113
5400.00	0.14679	6.81261	75.41[illegible]44	513.75[illegible]3	6.[illegible]1434[illegible]	10.88[illegible]67	0.00006402	45.55933
5600.00	0.146[illegible]9	6.83122	80.[illegible]0[illegible]35	552.69[illegible]3[illegible]	6.[illegible]3[illegible]82	11.11[illegible]68	0.00005182	48.85849
5800.00	0.146[illegible]2	6.84820	85.[illegible]8[illegible]01	593.05[illegible]1[illegible]	6.[illegible]9121	11.35[illegible]45	0.00004223	52.27615
6000.00	0.14570	6.86361	92.49[illegible]19	634.83[illegible]63	6.58943	11.57[illegible]85	0.00003464	55.81352

T1 = 150.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.27313	3.66129	2.84509	10.41670	1.11037	1.20591	0.34979928	1.87481
1000.00	0.23918	4.18091	3.92122	16.39428	1.17269	1.89426	0.19138632	2.54713
1200.00	0.21642	4.56776	5.20125	23.75340	1.25548	2.56936	0.10766970	3.33526
1400.00	0.20483	4.88219	6.68994	32.52976	1.34992	3.20505	0.06131499	4.24708
1600.00	0.19426	5.14776	8.39033	42.72814	1.45905	3.80423	0.03638326	5.24188
1800.00	0.18615	5.37487	10.11190	54.35011	1.58267	4.36469	0.02225227	6.34285
2000.00	0.17942	5.56724	12.10042	67.36596	1.72134	4.90119	0.01399383	7.55566
2200.00	0.17440	5.73361	14.27020	81.82266	1.87449	5.40341	0.00903544	8.87450
2400.00	0.17017	5.87655	16.62453	97.69487	2.04225	5.87809	0.00597564	10.29193
2600.00	0.16679	5.99559	19.16578	114.91020	2.22467	6.32799	0.00403826	11.83158
2800.00	0.16374	6.09973	21.89712	133.56645	2.42177	6.75422	0.00278583	13.48002
3000.00	0.16155	6.18986	24.82214	153.63326	2.63336	7.15699	0.00195812	15.24191
3200.00	0.15957	6.26686	27.95459	175.07096	2.85961	7.54421	0.00139995	17.12126
3400.00	0.15786	6.33400	31.29404	197.91244	3.10049	7.91126	0.00101686	19.11610
3600.00	0.15642	6.39292	34.75122	222.16159	3.35597	8.26155	0.00074946	21.22597
3800.00	0.15519	6.44352	38.45184	247.76577	3.62605	8.59659	0.00055976	23.45790
4000.00	0.15412	6.48636	42.34483	274.77459	3.91074	8.91732	0.00042333	25.80587
4200.00	0.15318	6.52813	46.44260	303.18340	4.21004	9.22483	0.00032385	28.27116
4400.00	0.15237	6.56293	50.73427	332.95873	4.52393	9.52017	0.00025040	30.85737
4600.00	0.15165	6.59406	55.22137	364.13329	4.85243	9.80410	0.00019553	33.56128
4800.00	0.15101	6.62186	59.90706	396.69628	5.19554	10.07745	0.00015410	36.38420
5000.00	0.15045	6.64676	64.79154	430.64828	5.55324	10.34092	0.00012250	39.32602
5200.00	0.14994	6.66919	69.87498	465.98921	5.92555	10.59516	0.00009817	42.38698
5400.00	0.14949	6.68925	75.15743	502.70709	6.31245	10.84078	0.00007926	45.56815
5600.00	0.14909	6.70745	80.63911	540.81570	6.71397	11.07829	0.00006445	48.86835
5800.00	0.14872	6.72396	86.32007	580.31146	7.13008	11.30819	0.00005275	52.28802
6000.00	0.14839	6.73898	92.19941	621.19540	7.56080	11.53094	0.00004345	55.82700

T1 = 150.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.27715	3.60811	2.82565	10.19525	1.09702	1.18808	1.36198623	1.86942
1000.00	0.24285	4.12112	3.49389	16.04716	1.15454	1.87834	1.20058571	2.53124
1200.00	0.22218	4.50117	4.10532	23.24997	1.22479	2.54822	1.11310289	3.32908
1400.00	0.20746	4.80863	4.62299	31.83779	1.30795	3.18293	1.06572243	4.23639
1600.00	0.19752	5.06783	5.25165	41.81795	1.40400	3.78113	1.03940174	5.22905
1800.00	0.18976	5.28923	5.85945	53.19095	1.51301	4.34457	1.02433478	6.33239
2000.00	0.18283	5.47860	12.43422	65.95264	1.63494	4.87569	1.01545060	7.54267
2200.00	0.17750	5.64030	14.20159	80.09954	1.76978	5.37695	1.01006340	8.86155
2400.00	0.17312	5.77632	16.04856	95.57096	1.91745	5.85112	1.00670849	10.28702
2600.00	0.16957	5.89380	17.97184	112.45462	2.07805	6.29971	1.00457689	11.82475
2800.00	0.16678	5.99581	22.80253	130.72373	2.25157	6.72483	1.00317752	13.47270
3000.00	0.16436	6.08356	24.71122	150.36278	2.43798	7.12859	1.00224964	15.23639
3200.00	0.16236	6.15904	27.32229	171.35857	2.63715	7.51277	1.00161962	17.11456
3400.00	0.16065	6.22464	31.12194	193.72356	2.84924	7.87864	1.00118424	19.10974
3600.00	0.15920	6.28126	34.81594	217.43116	3.07418	8.22833	1.00087826	21.22386
3800.00	0.15795	6.33125	38.38516	242.51944	3.31199	8.56236	1.00066001	23.45397
4000.00	0.15687	6.37473	42.18492	268.94483	3.56265	8.88225	1.00050203	25.80396
4200.00	0.15593	6.41332	46.27168	296.75016	3.82615	9.18893	1.00038520	28.27148
4400.00	0.15510	6.44754	51.54431	325.91230	4.10257	9.48340	1.00030021	30.85722
4600.00	0.15437	6.47782	55.12144	356.42532	4.39181	9.76655	1.00023564	33.56277
4800.00	0.15373	6.50487	59.49356	388.29847	4.69391	10.03913	1.00018664	36.38720
5000.00	0.15316	6.52912	64.50169	421.53216	5.00887	10.30185	1.00014908	39.33067
5200.00	0.15265	6.55082	69.62751	456.11716	5.33669	10.55538	1.00012002	42.39396
5400.00	0.15220	6.57043	74.89962	492.06322	5.67736	10.80028	1.00009734	45.57635
5600.00	0.15179	6.58821	80.35136	529.37161	6.03089	11.03710	1.00007949	48.87770
5800.00	0.15142	6.60428	86.00475	568.03225	6.39727	11.26634	1.00006534	52.29915
6000.00	0.15108	6.61890	91.86594	608.05654	6.77652	11.48843	1.00005403	55.83950

T1 = 150.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.28116	3.55667	2.10[illegible]45	9.98162	1.08651	1.17056	0.37404740	1.86414
1000.00	0.24610	4.06336	3.46[illegible]65	15.71240	1.13786	1.85471	0.20962491	2.52575
1200.00	0.22537	4.43705	5.13[illegible]69	22.76510	1.20061	2.52736	0.11964702	3.32277
1400.00	0.21[illegible]7	4.73772	6.57[illegible]30	31.17[illegible]86	1.27485	3.16114	0.07025412	4.22572
1600.00	0.20037	4.99078	8.20[illegible]21	40.94045	1.36064	3.75936	0.04253798	5.22870
1800.00	0.19[illegible]6	5.20682	10.00126	52.07477	1.45799	4.32078	0.02652049	6.32211
2000.00	0.18553	5.39010	11.97[illegible]64	64.55097	1.56687	4.85111	0.01698603	7.53464
2200.00	0.18023	5.54633	14.13[illegible]92	78.40309	1.68728	5.35123	0.01115900	8.85212
2400.00	0.17600	5.68166	16.46[illegible]33	93.57312	1.81920	5.82419	0.00750008	10.27841
2600.00	0.17251	5.79680	18.99[illegible]36	110.10641	1.96263	6.27164	0.00515012	11.81586
2800.00	0.16961	5.89573	21.7[illegible]14	127.98831	2.11755	6.69581	0.00360628	13.46521
3000.00	0.16719	5.98123	24.61[illegible]51	147.21317	2.28399	7.09857	0.00257107	15.22931
3200.00	0.16514	6.05539	27.7[illegible]85	167.78[illegible]2	2.46192	7.48167	0.00186356	17.10691
3400.00	0.16343	6.11883	31.[illegible]98	189.67145	2.65133	7.84667	0.00137120	19.10458
3600.00	0.16196	6.17430	34.48[illegible]3	212.89634	2.85223	8.19535	0.00102317	21.21909
3800.00	0.16070	6.22278	38.15[illegible]0	237.45245	3.06461	8.52855	0.00077338	23.45084
4000.00	0.15961	6.26524	42.13122	263.33570	3.28847	8.84756	0.00059157	25.80163
4200.00	0.15866	6.30275	46.[illegible]9437	290.55171	3.52382	9.15342	0.00045752	28.27091
4400.00	0.15783	6.33610	50.[illegible]3345	319.10775	3.77065	9.44705	0.00035750	30.85787
4600.00	0.15710	6.36555	54.82361	348.99824	4.02896	9.72942	0.00028201	33.56507
4800.00	0.15644	6.39204	59.4[illegible]24	380.19994	4.29879	10.00121	0.00022444	36.39009
5000.00	0.15587	6.41560	64.33338	412.73731	4.58007	10.26319	0.00018010	39.33538
5200.00	0.15536	6.43673	69.[illegible]324	446.60139	4.87284	10.51600	0.00014564	42.40027
5400.00	0.15490	6.45593	74.63[illegible]05	481.80619	5.17709	10.76018	0.00011863	45.58355
5600.00	0.15448	6.47324	80.07381	518.33681	5.49282	10.99631	0.00009728	48.88670
5800.00	0.15411	6.48885	85.71460	556.18943	5.82004	11.22489	0.00008029	52.31006
6000.00	0.15377	6.50313	91.55[illegible]59	595.37[illegible]0	6.15873	11.44633	0.00006666	55.85237

T = 150.00 ALPHA = 1.00

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.28516	3.50686	2.78749	9.77536	1.07301	1.15333	0.36597305	1.85699
1000.00	0.24953	4.00757	3.44118	15.38949	1.12442	1.83434	0.21969173	2.52019
1200.00	0.22056	4.37523	5.09187	22.29789	1.18104	2.50573	0.12829209	3.31156
1400.00	0.21402	4.66587	6.83351	30.50316	1.24411	3.14434	0.07465927	4.21746
1600.00	0.20340	4.91646	8.65582	40.09397	1.32561	3.73592	0.04578680	5.21737
1800.00	0.195 3	5.12735	9.94429	50.99616	1.41353	4.29782	0.02860777	6.31213
2000.00	0.18861	5.30747	11.91105	63.2334	1.51187	4.82457	0.01861485	7.52267
2200.00	0.18311	5.46120	14.10771	76.79485	1.62063	5.32554	0.01232871	8.84011
2400.00	0.17861	5.59257	16.39253	91.67650	1.73977	5.79722	0.00835276	10.26549
2600.00	0.175 0	5.70460	18.76150	107.87001	1.86930	6.24304	0.00577811	11.80375
2800.00	0.172 3	5.79944	21.21 88	125.3494	2.0 927	6.66712	0.0041 7373	13.45708
3000.00	0.16949	5.88281	23.7 6 1	144.1777	2.19901	7.06892	0.00292367	15.22192
3200.00	0.16712	5.95516	27.39 53	164.3386	2.32032	7.45199	0.00213302	17.09997
3400.00	0.166 1	6.01643	31.1 7 1	185.7517	2.44137	7.81534	0.00157901	19.10048
3600.00	0.16473	6.07056	34.84 15	208.5011	2.57265	8.16292	0.00119516	21.21569
3800.00	0.16316	6.11786	38.7 1 14	232.5538	2.70464	8.49519	0.00090089	23.44467
4000.00	0.16214	6.15977	42.87 75	257.9268	3.86891	8.81523	0.00069289	25.79543
4200.00	0.16159	6.19686	47.12 37	284.5738	3.27947	9.11429	0.00053365	28.26991
4400.00	0.16055	6.22847	51.47 76	312.5378	3.5 244	9.41113	0.00042299	30.85867
4600.00	0.15971	6.25744	56.02 17	341.81838	3.75571	9.69205	0.00033528	33.56590
4800.00	0.15916	6.28298	59.26 02	372.3732	3.97943	9.96372	0.00026806	36.39397
5000.00	0.15858	6.30092	64.10 04	404.2478	4.23359	10.22494	0.00021607	39.34014
5200.00	0.15816	6.32068	69.13 17	437.4214	4.49800	10.47701	0.00017548	42.40613
5400.00	0.157 0	6.34537	74.35961	471.9027	4.77262	10.72149	0.00014353	45.59107
5600.00	0.15718	6.36217	79.79 38	507.6781	5.05801	10.95595	0.00011818	48.89637
5800.00	0.15680	6.37746	85.41 62	544.7599	5.35557	11.16385	0.00009792	52.32089
6000.00	0.15686	6.39137	91.20 42	583.1446	5.6595	11.40464	0.000 8160	55.86501

T1 = 200.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.26971	3.70766	2.46[illegible]07	9.14333	2.47695	0.96455	0.38115461	1.59490
1000.00	0.22945	4.35430	3.31153	14.41946	3.35752	1.58266	0.20542835	2.10406
1200.00	0.20548	4.66199	4.30[illegible]55	20.92[illegible]3	4.43224	2.20300	0.11047127	2.70025
1400.00	0.18936	5.28095	5.43[illegible]17	28.67645	5.70310	2.80518	0.06[illegible]49586	3.37241
1600.00	0.17747	5.62829	6.[illegible]8743	37.638[illegible]	7.17015	3.38330	0.03393521	4.12306
1800.00	0.16683	5.93002	8.[illegible]7749	47.69972	8.[illegible]3434	3.93327	0.01957953	4.93277
2000.00	0.16[illegible]3	6.18695	9.[illegible]0193	59.41289	10.69505	4.45621	0.01160628	5.83321
2200.00	0.15618	6.40287	11.[illegible]6[illegible]8	72.13[illegible]4	12.75167	4.95336	0.00705963	6.81953
2400.00	0.15[illegible]3	6.58639	13.[illegible]3[illegible]5	86.09496	15.00492	5.42562	0.00440234	7.87896
2600.00	0.14833	6.74194	15.[illegible]2[illegible]04	101.2643[illegible]	17.45401	5.87454	0.00281010	9.02748
2800.00	0.14540	6.87743	17.11[illegible]94	117.699[illegible]	20.09951	6.30120	0.00183411	10.25827
3000.00	0.14302	6.99192	19.[illegible]5[illegible]33	135.323[illegible]	22.94084	6.70770	0.00122146	11.57650
3200.00	0.14101	7.09193	21.[illegible]4[illegible]64	154.19726	25.97840	7.09508	0.00082917	12.98016
3400.00	0.13936	7.17897	24.[illegible]7[illegible]65	174.30283	29.21206	7.46484	0.00057288	14.46999
3600.00	0.13785	7.25442	26.[illegible]6[illegible]9[illegible]	195.62230	32.[illegible]4169	7.81[illegible]33	0.00040229	16.04868
3800.00	0.13661	7.32016	29.[illegible]0211	218.15[illegible]4	36.26731	8.15673	0.00028680	17.71546
4000.00	0.13554	7.37798	32.[illegible]5[illegible]58	241.913[illegible]	40.[illegible]8895	8.48106	0.00020735	19.47066
4200.00	0.13461	7.42910	35.[illegible]2[illegible]73	266.69593	44.10663	8.79236	0.00015189	21.31410
4400.00	0.13379	7.47442	39.[illegible]1[illegible]61	293.10040	48.32032	9.09149	0.00011262	23.24595
4600.00	0.13307	7.51479	42.[illegible]5[illegible]08	320.52900	52.73004	9.37929	0.00008446	25.26639
4800.00	0.13244	7.55061	46.[illegible]4[illegible]66	349.16791	57.3357[illegible]	9.65656	0.00006400	27.37667
5000.00	0.13186	7.58276	49.[illegible]8[illegible]75	379.03009	62.13734	9.92395	0.00004899	29.57559
5200.00	0.13138	7.61169	53.[illegible]7[illegible]49	410.11509	67.13505	10.18210	0.00003784	31.86356
5400.00	0.13093	7.63784	57.[illegible]2[illegible]99	442.42160	72.32879	10.43157	0.00002949	34.24041
5600.00	0.13052	7.66142	62.[illegible]2[illegible]30	475.94516	77.71847	10.67293	0.00002316	36.70679
5800.00	0.13016	7.68260	66.[illegible]7[illegible]54	510.69141	83.30415	10.90663	0.00001834	39.26223
6000.00	0.12983	7.70225	71.[illegible]2[illegible]71	546.64934	89.08561	11.13314	0.00001462	41.90757

T1 = 200.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.27456	3.64220	2.44078	8.92246	1.52541	0.94722	0.39588950	1.59142
1000.00	0.23361	4.27707	3.28455	14.06941	1.83934	1.56131	0.21675859	2.09936
1200.00	0.20952	4.77506	4.27433	20.41972	2.22247	2.17936	0.11833720	2.69434
1400.00	0.19259	5.18417	5.39401	27.98421	2.67549	2.77463	0.06572012	3.35943
1600.00	0.18058	5.52865	6.65779	36.76990	3.19861	3.35555	0.03740122	4.11278
1800.00	0.17151	5.82047	8.03560	46.77216	3.79181	3.90446	0.02104927	4.92493
2000.00	0.16479	6.06615	9.55592	57.98670	4.45507	4.42643	0.01210518	5.82777
2200.00	0.15934	6.27591	11.21401	70.37619	5.18823	4.92264	0.00686127	6.81640
2400.00	0.15458	6.45653	13.01334	84.02095	5.99151	5.39339	0.00396388	7.87558
2600.00	0.15152	6.60859	14.95560	98.83547	6.86463	5.84103	0.00227954	9.02421
2800.00	0.14856	6.74015	17.04289	114.87170	7.80774	6.26659	0.00216184	10.25600
3000.00	0.14592	6.85307	19.27446	132.10287	8.82075	6.67180	0.00145374	11.57322
3200.00	0.14356	6.95104	21.65245	150.54177	9.90371	7.05504	0.00099591	12.97652
3400.00	0.14215	7.03470	24.18254	170.14519	11.05647	7.42691	0.00069397	14.46918
3600.00	0.14048	7.10010	26.86460	190.95701	12.27917	7.77942	0.00049138	16.04845
3800.00	0.13942	7.17235	29.69209	212.96205	13.57174	8.11485	0.00035311	17.71588
4000.00	0.13853	7.22892	32.66948	236.16497	14.93421	8.44024	0.00025726	19.47122
4200.00	0.13779	7.27663	35.79705	260.55343	16.36655	8.75164	0.00018983	21.31580
4400.00	0.13696	7.32282	39.07515	286.14004	17.86878	9.04891	0.00014174	23.24836
4600.00	0.13554	7.36176	42.50469	312.90420	19.44086	9.33593	0.00010701	25.27108
4800.00	0.13519	7.39681	46.08358	340.87147	21.08284	9.61238	0.00008163	27.38187
5000.00	0.13472	7.42814	49.81432	370.02779	22.79469	9.87900	0.00006287	29.56185
5200.00	0.13411	7.45636	53.69625	400.37846	24.57642	10.13439	0.00004686	31.87074
5400.00	0.13356	7.48170	57.72948	431.91816	26.42802	10.38515	0.00003830	34.24907
5600.00	0.13325	7.50471	61.91406	464.64695	28.34951	10.62580	0.00003026	36.71682
5800.00	0.13258	7.52559	66.25011	498.56841	30.34085	10.85863	0.00002408	39.27370
6000.00	0.13255	7.54451	70.73767	533.68079	32.40208	11.08467	0.00001931	41.91997

T1 = 200.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.27958	3.57934	2.43368	8.71097	1.31881	0.92823	0.41042501	1.58201
1000.00	0.23779	4.20356	3.26761	13.73648	1.50974	1.54019	0.22816605	2.09429
1200.00	0.21374	4.69181	4.24560	19.93602	1.74272	2.15606	0.12636747	2.66835
1400.00	0.19643	5.09174	5.36403	27.32244	2.01415	2.75482	0.07114627	3.35663
1600.00	0.18423	5.42798	6.61598	35.90056	2.33627	3.32900	0.04101169	4.10669
1800.00	0.17516	5.70911	7.99751	45.63756	2.69693	3.87701	0.02424192	4.92328
2000.00	0.16774	5.95437	9.50904	56.62034	3.10032	4.39705	0.01471924	5.82245
2200.00	0.16240	6.15746	11.16173	68.72869	3.54617	4.89168	0.00915595	6.80945
2400.00	0.15773	6.33180	12.95512	82.02926	4.03461	5.36162	0.00583414	7.87260
2600.00	0.15430	6.48106	14.89130	96.51144	4.56560	5.80792	0.00380206	9.02050
2800.00	0.15131	6.60894	16.97201	112.16765	5.13912	6.23236	0.00253026	10.25308
3000.00	0.14882	6.71954	19.19967	129.00820	5.75515	6.63639	0.00171719	11.57059
3200.00	0.14676	6.81403	21.57217	146.99329	6.41371	7.02170	0.00118652	12.97663
3400.00	0.14500	6.89631	24.09353	166.15655	7.11479	7.38944	0.00083377	14.46837
3600.00	0.14351	6.96508	26.76437	186.48930	7.85832	7.74094	0.00059510	16.04771
3800.00	0.14224	7.03053	29.58218	207.97836	8.64437	8.07742	0.00043091	17.71635
4000.00	0.14113	7.08554	32.55043	230.63740	9.47292	8.39991	0.00031624	19.47284
4200.00	0.14017	7.13434	35.66851	254.47114	10.34398	8.70936	0.00023500	21.31711
4400.00	0.13933	7.17719	38.93656	279.45516	11.25752	9.00662	0.00017666	23.25136
4600.00	0.13859	7.21536	42.35468	305.60671	12.21355	9.29298	0.00013424	25.27423
4800.00	0.13794	7.24933	45.92263	332.91565	13.21208	9.56866	0.00010305	27.38666
5000.00	0.13737	7.27986	49.64101	361.39304	14.25311	9.83450	0.00007985	29.58780
5200.00	0.13685	7.30740	53.51815	391.04176	15.33663	10.09114	0.00006242	31.87760
5400.00	0.13639	7.33204	57.53407	421.84217	16.46264	10.33919	0.00004920	34.25753
5600.00	0.13597	7.35442	61.70595	453.81165	17.63115	10.57914	0.00003908	36.72632
5800.00	0.13558	7.37481	66.02484	486.95001	18.84215	10.81147	0.00003127	39.28402
6000.00	0.13526	7.39321	70.50276	521.24171	20.09564	11.03665	0.00002520	41.93193

T1 = 200.00 ALPHA = 0.30

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.28418	3.51889	2.41775	8.50785	1.22845	0.91059	0.42474597	1.58024
1000.00	0.24174	4.13016	3.24828	13.41746	1.36558	1.51936	0.23961381	2.06915
1200.00	0.21653	4.61190	4.22246	19.47356	1.53286	2.13313	0.13454455	2.68236
1400.00	0.19978	5.00309	5.33423	26.68765	1.73064	2.73617	0.07674450	3.35378
1600.00	0.18757	5.33137	6.57732	35.06616	1.95911	3.30284	0.04478964	4.10055
1800.00	0.17827	5.60937	7.95248	44.60838	2.21815	3.84885	0.02660371	4.91505
2000.00	0.17141	5.84069	9.46195	55.26625	2.50773	4.36674	0.01643933	5.82194
2200.00	0.16582	6.04536	11.10672	67.10260	2.82802	4.86130	0.01034500	6.80068
2400.00	0.16097	6.21234	12.89704	80.12070	3.17874	5.33025	0.00665610	7.86941
2600.00	0.15726	6.35886	14.82715	94.26500	3.56009	5.77520	0.00438035	9.01654
2800.00	0.15424	6.48360	16.90138	109.58125	3.97196	6.19549	0.00294201	10.24923
3000.00	0.15172	6.59089	19.12194	126.02390	4.41434	6.60149	0.00201404	11.56886
3200.00	0.14961	6.68409	21.48729	143.62242	4.88734	6.98557	0.00140350	12.97261
3400.00	0.14785	6.76376	24.00167	162.33455	5.39079	7.35237	0.00099408	14.46675
3600.00	0.14633	6.83373	26.66229	182.20209	5.92479	7.70267	0.00071496	16.04660
3800.00	0.14504	6.89461	29.47241	203.20066	6.48931	8.03841	0.00052150	17.71612
4000.00	0.14392	6.94833	32.43357	225.34526	7.08434	8.35997	0.00038542	19.47310
4200.00	0.14295	6.99543	35.53699	248.61758	7.70987	8.66862	0.00028833	21.31958
4400.00	0.14210	7.03752	38.79409	273.04220	8.36597	8.96515	0.00021817	23.25380
4600.00	0.14135	7.07464	42.20595	298.59195	9.05259	9.25051	0.00016682	25.27800
4800.00	0.14069	7.10783	45.76481	325.28129	9.76967	9.52538	0.00012882	27.39099
5000.00	0.14010	7.13754	49.47263	353.10714	10.51731	9.79045	0.00010040	29.59330
5200.00	0.13958	7.16426	53.33112	382.07110	11.29545	10.04636	0.00007893	31.88470
5400.00	0.13911	7.18840	57.34181	412.17436	12.10412	10.29367	0.00006255	34.26526
5600.00	0.13869	7.21017	61.49795	443.41090	12.94331	10.53292	0.00004995	36.73543
5800.00	0.13831	7.22996	65.80765	475.78653	13.81302	10.76456	0.00004017	39.29485
6000.00	0.13797	7.24790	70.26793	509.29521	14.71321	10.98910	0.00003253	41.94399

T1 = 200.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.28876	3.46069	2.40202	8.31265	1.17774	0.89330	0.43863927	1.57839
1000.00	0.24547	4.06561	3.22499	13.11142	1.28472	1.49889	0.25108158	2.08398
1200.00	0.22051	4.53502	4.19580	19.02809	1.41518	2.11058	0.14285137	2.67644
1400.00	0.20394	4.91787	5.30259	26.07744	1.56943	2.70590	0.08250974	3.34457
1600.00	0.19078	5.23677	6.54483	34.26593	1.74756	3.27703	0.04873198	4.09421
1800.00	0.18148	5.51016	7.91103	43.59104	1.94956	3.82163	0.02949478	4.91030
2000.00	0.17421	5.74026	9.41169	54.04878	2.17544	4.33951	0.01829693	5.81240
2200.00	0.16858	5.93180	11.05730	65.58970	2.42511	4.83203	0.01161882	6.79986
2400.00	0.16398	6.09836	12.83515	78.29726	2.69867	5.29917	0.00755283	7.86523
2600.00	0.16021	6.24170	14.78315	92.14717	2.99608	5.74287	0.00501701	9.01229
2800.00	0.15715	6.36340	16.83075	107.10079	3.31729	6.16501	0.00339949	10.24505
3000.00	0.15460	6.46837	19.04946	123.18011	3.66232	6.56685	0.00234697	11.56441
3200.00	0.15246	6.55809	21.40118	140.35740	4.03115	6.95005	0.00164843	12.97107
3400.00	0.15067	6.63711	23.88805	158.68037	4.42381	7.31563	0.00117675	14.46289
3600.00	0.14915	6.70486	26.56135	178.09067	4.84025	7.66522	0.00085251	16.04493
3800.00	0.14784	6.76403	29.36276	196.61852	5.28049	7.99583	0.00062620	17.71565
4000.00	0.14671	6.81632	32.31579	220.25443	5.74455	8.32049	0.00046593	19.47371
4200.00	0.14572	6.86235	35.41167	243.00726	6.23241	8.62824	0.00035082	21.32069
4400.00	0.14486	6.90318	38.65972	266.87497	6.74408	8.92396	0.00026710	23.25648
4600.00	0.14410	6.93939	42.05712	291.85558	7.27952	9.20648	0.00020547	25.28158
4800.00	0.14344	6.97175	45.60208	317.94037	7.83875	9.48255	0.00015959	27.39564
5000.00	0.14284	7.00077	49.30175	345.14334	8.42184	9.74685	0.00012506	29.59868
5200.00	0.14231	7.02680	53.14523	373.45512	9.02870	10.00201	0.00009886	31.89132
5400.00	0.14184	7.05030	57.14364	402.87976	9.65936	10.24860	0.00007875	34.27318
5600.00	0.14141	7.07151	61.29006	433.41332	10.31381	10.48715	0.00006320	36.74467
5800.00	0.14103	7.09083	65.58659	465.06317	10.99208	10.71812	0.00005108	39.30512
6000.00	0.14068	7.10836	70.03326	497.82186	11.69415	10.94198	0.00004155	41.95530

T1 = 200.00 ALPHA = 0.50

UN1	UN2/U N1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.29372	3.40456	2.38645	8.12486	1.14532	0.87635	0.45269366	1.57647
1000.00	0.24996	4.00083	3.20364	12.81737	1.23297	1.47473	0.26255046	2.07882
1200.00	0.22428	4.45869	4.10416	18.58897	1.33984	2.08885	0.15121041	2.67211
1400.00	0.20679	4.83594	5.27112	25.49082	1.46623	2.68200	0.08643349	3.33555
1600.00	0.19418	5.14975	6.50450	33.49652	1.61217	3.25160	0.05283242	4.08785
1800.00	0.18468	5.41461	7.86674	42.61310	1.77767	3.79486	0.03232622	4.90568
2000.00	0.17732	5.63951	9.36823	52.83784	1.96274	4.31133	0.02026200	5.80755
2200.00	0.17138	5.82832	11.00555	64.14386	2.16732	4.81227	0.01299748	6.79186
2400.00	0.16694	5.99017	12.78154	76.56359	2.39145	5.28629	0.00852756	7.85918
2600.00	0.16315	6.12939	14.69431	90.09775	2.63513	5.71190	0.00571459	9.00754
2800.00	0.16006	6.24783	16.76731	104.71566	2.89831	6.13194	0.00390498	10.24093
3000.00	0.15747	6.35055	18.96411	120.44519	3.18102	6.53264	0.00271794	11.55966
3200.00	0.15542	6.43853	21.31751	137.25330	3.48325	6.91471	0.00192386	12.96613
3400.00	0.15382	6.51381	23.81530	155.12541	3.80495	7.27953	0.00138322	14.46265
3600.00	0.15176	6.58051	26.46745	174.12329	4.14615	7.62905	0.00100926	16.04434
3800.00	0.15054	6.63839	29.25322	194.19413	4.50684	7.96570	0.00074639	17.71507
4000.00	0.14949	6.68921	32.19709	215.35285	4.88711	8.28447	0.00055895	19.47456
4200.00	0.14850	6.73419	35.29142	237.60384	5.28688	8.58653	0.00042349	21.32250
4400.00	0.14773	6.77392	38.52145	260.94112	5.70607	8.86320	0.00032436	23.25926
4600.00	0.14696	6.80941	41.90143	285.37151	6.14461	9.16665	0.00025097	25.28468
4800.00	0.14628	6.84096	45.44245	310.87932	6.60304	9.44017	0.00019601	27.40019
5000.00	0.14568	6.86914	49.12776	337.47936	7.08074	9.70370	0.00015444	29.60446
5200.00	0.14514	6.89467	52.96447	365.17227	7.57802	9.95609	0.00012270	31.89756
5400.00	0.14466	6.91747	56.94458	393.94035	8.09476	10.20397	0.00009624	34.28107
5600.00	0.14413	6.93820	61.08229	423.80004	8.63101	10.44181	0.00007923	36.75350
5800.00	0.14374	6.95696	65.36762	454.74610	9.18674	10.67212	0.00006433	39.31563
6000.00	0.14339	6.97406	69.79866	486.78164	9.76195	10.89531	0.00005257	41.96696

T1 = 200.00 ALPHA = 0.60

UN1	U=2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/-1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.29[illegible]7	3.35042	2.37[illegible]05	7.944[illegible]1	1.12277	0.85974	0.46629977	1.57449
1000.00	0.253[illegible]3	3.93805	3.16[illegible]92	12.53[illegible]	1.19701	1.45[illegible]	0.27400319	2.07371
1200.00	0.22779	4.39006	4.14[illegible]05	18.18[illegible]	1.28751	2.06[illegible]	0.15960758	2.66455
1400.00	0.21020	4.75742	5.[illegible]85	24.92[illegible]	1.39451	2.65[illegible]	0.09451128	3.33497
1600.00	0.19747	5.06412	6.46[illegible]31	32.75[illegible]	1.51804	3.22654	0.05708594	4.06144
1800.00	0.18[illegible]6	5.32320	7.82[illegible]59	41.67[illegible]	1.65822	3.76[illegible]32	0.03529655	4.90105
2000.00	0.18[illegible]2	5.54263	9.32[illegible]90	51.67[illegible]	1.81492	4.28352	0.02234493	5.80271
2200.00	0.17496	5.72684	10.95[illegible]94	62.75[illegible]	1.98814	4.77268	0.01447390	6.76394
2400.00	0.16[illegible]8	5.88635	12.72409	74.89[illegible]	2.17797	5.23776	0.00958134	7.85278
2600.00	0.16[illegible]6	6.02188	14.63566	88.13[illegible]	2.38431	5.67925	0.00647563	9.00188
2800.00	0.15[illegible]6	6.13651	16.68499	102.41[illegible]	2.60715	6.09930	0.00446065	10.23706
3000.00	0.16[illegible]6	6.23597	18.[illegible]71	117.78[illegible]	2.84653	6.49902	0.00312860	11.55738
3200.00	0.15619	6.32162	21.23269	134.22[illegible]	3.10244	6.86006	0.00223101	12.96528
3400.00	0.15[illegible]4	6.39644	23.72287	151.74[illegible]	3.37487	7.24306	0.00161575	14.45932
3600.00	0.15478	6.46072	25.35[illegible]65	170.30[illegible]	3.66381	7.59132	0.00116683	16.04378
3800.00	0.15344	6.51741	29.14[illegible]77	189.94[illegible]	3.96927	7.92399	0.00088345	17.71468
4000.00	0.15228	6.56703	32.[illegible]553	210.64[illegible]	4.29124	8.24284	0.00066574	19.47487
4200.00	0.15126	6.61121	35.15[illegible]8	232.41[illegible]	4.62974	8.54[illegible]77	0.00050746	21.32254
4400.00	0.15038	6.64983	38.38[illegible]36	255.24[illegible]	4.98474	8.84282	0.00039091	23.26084
4600.00	0.14960	6.68443	41.75[illegible]8	279.14[illegible]	5.35625	9.12508	0.00030413	25.28727
4800.00	0.14892	6.71497	45.28[illegible]6	304.08[illegible]	5.74429	9.39820	0.00023880	27.40434
5000.00	0.14[illegible]1	6.74257	48.95[illegible]91	330.10[illegible]	6.14884	9.66[illegible]95	0.00018914	29.60964
5200.00	0.14777	6.76732	52.78176	357.19077	6.56990	9.91463	0.00015101	31.90453
5400.00	0.14728	6.78971	56.75365	385.34060	7.00747	10.15976	0.00012149	34.28847
5600.00	0.14685	6.80984	60.87461	414.54642	7.46156	10.39692	0.00009843	36.76253
5800.00	0.14645	6.82816	65.14477	444.81920	7.93218	10.62653	0.00008029	39.32579
6000.00	0.146[illegible]9	6.84487	69.56418	476.15756	8.41927	10.84906	0.00006590	41.97838

T1 = 200.00 ALPHA = 0.70

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.303-1	3.29809	2.45561	7.76949	1.1061-	0.84347	0.47964941	1.57121
1000.00	0.257-8	3.87771	3.10219	12.26209	1.17056	1.43949	0.26542381	2.06866
1200.00	0.231-7	4.32202	3.11700	17.79376	1.24902	2.04486	0.16644206	2.65833
1400.00	0.213-9	4.66192	5.20-76	24.38639	1.3417-	2.63512	0.10073069	3.32636
1600.00	0.20073	4.98189	6.43231	32.04505	1.44887	3.20160	0.06148679	4.07482
1800.00	0.191-3	5.23481	7.78-58	40.76650	1.5703-	3.74225	0.03840156	4.89669
2000.00	0.1853-1	5.44938	9.27-72	50.55247	1.7.623	4.25609	0.02454524	5.79795
2200.00	0.177-3	5.62952	10.90911	61.37477	1.-3642	4.74445	0.01584068	6.78066
2400.00	0.172-3	5.78586	12.66772	73.26812	2.02093	5.20770	0.01071480	7.84718
2600.00	0.169-2	5.91654	14.57191	86.21551	2.19984	5.64429	0.00729988	8.99780
2800.00	0.165-6	6.02916	16.61576	100.20319	2.3930-	6.06709	0.00506859	10.23349
3000.00	0.163-4	6.12605	18.81148	115.24000	2.-805-	6.46575	0.00358161	11.55431
3200.00	0.161-3	6.20986	21.14-18	131.32729	2.-2244	6.84570	0.00257246	12.96256
3400.00	0.15917	6.28246	23.63149	148.45759	3.-5862	7.20-35	0.00187569	14.45829
3600.00	0.15758	6.34589	26.25-06	166.63721	3.3.915	7.55493	0.00138693	16.04154
3800.00	0.156-3	6.40092	29.-3445	185.84712	3.57895	7.88-7-	0.00103885	17.71421
4000.00	0.155-5	6.44942	31.35719	206.10485	3.85309	8.20463	0.00078756	19.47500
4200.00	0.154-3	6.49228	33.32737	227.40716	4.14655	8.50971	0.00060377	21.32434
4400.00	0.15314	6.53007	35.24532	249.74481	4.45432	8.8(290	0.00046769	23.26330
4600.00	0.152-5	6.56375	41.61-35	273.12659	4.77642	9.08495	0.00036582	25.29107
4800.00	0.151-6	6.59374	45.12-54	297.54622	5.11284	9.35664	0.00028873	27.40832
5000.00	0.151-4	6.62076	44.79-20	323.01512	5.46353	9.61-62	0.00022982	29.61416
5200.00	0.15049	6.64490	52.59624	349.51671	5.8286-	9.87155	0.00018437	31.91015
5400.00	0.150-0	6.66660	56.55464	377.05873	6.2079-	10.11595	0.00014902	34.29564
5600.00	0.14956	6.68627	60.66706	405.63625	6.50164	10.35243	0.00012128	36.77114
5800.00	0.14916	6.70414	64.92454	435.25977	7.00963	10.58137	0.00009935	39.33563
6000.00	0.148-0	6.72037	69.32-79	465.92216	7.43194	10.80325	0.00008189	41.98989

T* = 200.00 ALPHA = 0.50

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.30773	3.24748	2.34[illegible]73	7.60150	1.09347	0.82754	0.49273595	1.56763
1000.00	0.26[illegible]2	3.81945	3.14[illegible]65	11.99930	1.15029	1.42[illegible]23	0.29679778	2.06369
1200.00	0.23[illegible]3	4.25656	4.[illegible]9114	17.41410	1.21952	2.02354	0.17715924	2.65207
1400.00	0.21[illegible]6	4.60917	5.[illegible]7764	23.86555	1.3[illegible]136	2.61219	0.10768085	3.32175
1600.00	0.20347	4.90270	6.[illegible]9746	31.35997	1.4956[illegible]	3.1774[illegible]	0.06603387	4.06102
1800.00	0.19417	5.15014	7.74[illegible]75	39.89[illegible]84	1.50307	3.71[illegible]46	0.04164264	4.89098
2000.00	0.18658	5.35963	9.[illegible]3[illegible]69	49.473[illegible]2	1.[illegible]2294	4.22902	0.02686253	5.79314
2200.00	0.18059	5.53729	10.[illegible]5[illegible]77	60.0863[illegible]	1.75545	4.71565	0.01771398	6.77317
2400.00	0.17589	5.68531	12.[illegible]0903	71.[illegible]8629	1.9[illegible]364	5.17[illegible]68	0.01192343	7.84546
2600.00	0.17197	5.81483	14.50[illegible]24	84.3629[illegible]	2.0[illegible]645	5.6177[illegible]6	0.00819043	8.99421
2800.00	0.16876	5.92562	16.54[illegible]64	98.06[illegible]84	2.2[illegible]895	6.03529	0.00573081	10.22972
3000.00	0.16610	6.02034	18.73[illegible]40	112.78754	2.41211	6.43284	0.00407895	11.55082
3200.00	0.16386	6.10277	21.[illegible]3774	128.54711	2.[illegible]0769	6.81165	0.00295014	12.95856
3400.00	0.16197	6.17389	23.53[illegible]24	145.3227[illegible]	2.[illegible]8163[illegible]	7.17325	0.00216535	14.45417
3600.00	0.16038	6.23505	26.[illegible]5[illegible]55	163.09980	3.[illegible]3734	7.51[illegible]97	0.00161106	16.03982
3800.00	0.159[illegible]1	6.28684	28.[illegible]2[illegible]23	181.90636	3.27102	7.84978	0.00121404	17.71316
4000.00	0.157[illegible]3	6.33608	31.[illegible]3[illegible]79	201.73326	3.51733	8.16[illegible]82	0.00092570	19.47505
4200.00	0.15679	6.37783	34.[illegible]9943	222.582[illegible]6	3.7762[illegible]	8.47104	0.00071362	21.32548
4400.00	0.15558	6.41505	38.[illegible]0751	244.461[illegible]7	4.[illegible]4785	8.76333	0.00055578	23.26414
4600.00	0.15510	6.44764	41.46[illegible]01	267.33849	4.33209	9.04460	0.00043694	25.29387
4800.00	0.15459	6.47694	44.96[illegible]33	291.24412	4.62894	9.31550	0.00034657	27.41205
5000.00	0.15377	6.50331	48.61[illegible]60	316.17544	4.93843	9.57671	0.00027719	29.61886
5200.00	0.15302	6.52672	52.41[illegible]77	342.10972	5.26055	9.82[illegible]91	0.00022340	31.91671
5400.00	0.15272	6.54797	56.36[illegible]10	369.07039	5.59530	10.07262	0.0001[illegible]137	34.30331
5600.00	0.15227	6.56720	60.45[illegible]64	397.05025	5.94269	10.30836	0.00014825	36.77942
5800.00	0.151[illegible]7	6.58465	64.70[illegible]45	426.04972	6.30271	10.53662	0.00012196	39.34504
6000.00	0.151[illegible]0	6.60053	69.[illegible]9459	456.06737	6.67535	10.75763	0.00010094	42.00033

T1 = 200.00 ALPHA = 0.90

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.31275	3.19849	2.32562	7.43904	1.76342	0.81194	0.50555390	1.56432
1000.00	0.26574	3.76014	3.12150	11.74586	1.13425	1.40139	0.30811180	2.05881
1200.00	0.23647	4.19346	4.06547	17.04839	1.19623	2.00253	0.18594526	2.64579
1400.00	0.22051	4.53897	5.14709	23.36244	1.26941	2.58961	0.11355103	3.31518
1600.00	0.20723	4.82556	6.36170	30.69305	1.33395	3.15352	0.07070516	4.05674
1800.00	0.19760	5.06639	7.70167	39.05739	1.44985	3.69104	0.04501312	4.86259
2000.00	0.18974	5.27045	9.16351	48.40656	1.55705	4.20282	0.02928325	5.78908
2200.00	0.18370	5.44374	10.79505	58.78715	1.67562	4.68844	0.01947339	6.77169
2400.00	0.17877	5.59380	12.55214	70.21417	1.80553	5.14907	0.01322456	7.83556
2600.00	0.17490	5.71756	14.44483	82.58936	1.94671	5.58745	0.00915022	8.98936
2800.00	0.17185	5.82579	16.47265	96.00609	2.09923	6.00388	0.00644924	10.22528
3000.00	0.16946	5.91851	18.65746	110.42445	2.26307	6.40031	0.00462246	11.54716
3200.00	0.16758	5.99937	20.97448	125.86360	2.43822	6.77500	0.00336568	12.95479
3400.00	0.16610	6.06783	23.44502	142.26651	2.62469	7.13575	0.00248572	14.45345
3600.00	0.16518	6.12606	26.05715	159.68597	2.82241	7.48342	0.00186082	16.03836
3800.00	0.16178	6.16111	28.81431	178.11686	3.03147	7.81321	0.00141053	17.71096
4000.00	0.16053	6.22683	31.72161	197.51844	3.25183	8.12940	0.00108148	19.47492
4200.00	0.15955	6.26754	34.77367	217.93294	3.48349	8.43276	0.00083819	21.32627
4400.00	0.15864	6.30365	37.96467	239.34765	3.72646	8.72423	0.00065614	23.26662
4600.00	0.15783	6.33576	41.31480	261.76075	3.98073	9.00465	0.00051843	25.29614
4800.00	0.15712	6.36443	44.80724	285.17241	4.24630	9.27474	0.00041319	27.41497
5000.00	0.15649	6.39003	48.44710	309.57845	4.52318	9.53520	0.00033199	29.62353
5200.00	0.15594	6.41287	52.23445	334.97289	4.81135	9.78667	0.00026876	31.92251
5400.00	0.15543	6.43373	56.16957	361.37970	5.11083	10.02963	0.00021914	34.30957
5600.00	0.15498	6.45243	60.25236	388.77426	5.42161	10.26469	0.00017987	36.78715
5800.00	0.15457	6.46939	64.48297	417.16572	5.74369	10.49228	0.00014857	39.35447
6000.00	0.15421	6.48462	68.86143	446.55374	6.07707	10.71284	0.00012344	42.01152

T1 = 200.00 ALPHA = 1.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.31736	3.15100	2.31105	7.28213	1.07527	0.79667	0.51609855	1.56127
1000.00	0.26960	3.70640	3.10194	11.49332	1.12126	1.38344	0.31920410	2.05543
1200.00	0.24198	4.13255	4.04900	16.69551	1.17729	1.98163	0.19478687	2.63954
1400.00	0.22364	4.47140	5.11752	22.87869	1.24350	2.56732	0.12013696	3.30848
1600.00	0.21040	4.75282	6.32526	30.06258	1.31997	3.12963	0.07552674	4.05098
1800.00	0.20048	4.98798	7.66837	38.23471	1.40669	3.66629	0.04849781	4.87626
2000.00	0.19259	5.18974	9.13405	47.42930	1.50369	4.17595	0.03184336	5.77833
2200.00	0.18629	5.35941	10.74216	57.60387	1.61093	4.66029	0.02134993	6.76254
2400.00	0.18170	5.50356	12.49514	68.76795	1.72841	5.12018	0.01460608	7.82881
2600.00	0.17778	5.62500	14.38172	80.89729	1.85612	5.55734	0.01018177	8.98240
2800.00	0.17453	5.72965	16.40961	94.02251	1.99407	5.97262	0.00722578	10.22057
3000.00	0.17191	5.82030	18.56866	108.14504	2.14225	6.36815	0.00521395	11.54340
3200.00	0.16953	5.89683	20.89529	123.25731	2.30068	6.74488	0.00382049	12.95242
3400.00	0.16761	5.96606	23.33499	139.33176	2.46932	7.10456	0.00283910	14.45099
3600.00	0.16597	6.02503	25.95798	156.39717	2.64819	7.44823	0.00213788	16.03628
3800.00	0.16457	6.07626	28.70726	174.43341	2.83726	7.77717	0.00162954	17.71127
4000.00	0.16336	6.12153	31.60058	193.45630	3.03660	8.09236	0.00125625	19.47400
4200.00	0.16231	6.16114	34.64404	213.44686	3.24614	8.39487	0.00097867	21.32690
4400.00	0.16139	6.19635	37.83201	234.42027	3.46591	8.68551	0.00076993	23.26825
4600.00	0.16057	6.22771	41.16469	256.37426	3.69591	8.96510	0.00061125	25.29870
4800.00	0.15986	6.25556	44.64418	279.30004	3.93612	9.23442	0.00048941	27.41909
5000.00	0.15922	6.28063	48.27469	303.20782	4.18656	9.49411	0.00039499	29.62852
5200.00	0.15865	6.30303	52.05227	328.08679	4.44722	9.74462	0.00032115	31.92800
5400.00	0.15813	6.32325	55.97404	353.94409	4.71810	9.98709	0.00026294	34.31700
5600.00	0.15769	6.34154	60.04514	380.77671	4.99921	10.22144	0.00021670	36.79563
5800.00	0.15728	6.35814	64.26258	408.59042	5.29053	10.44835	0.00017968	39.36390
6000.00	0.15691	6.37321	68.62742	437.37705	5.59208	10.66825	0.00014986	42.02210

T1 = 250.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.29483	3.39182	2.14 63	7.29185	2.16343	0.71877	0.48735160	1.40299
1000.00	0.245 6	4.08022	2.82 50	11.51969	2.87132	1.26327	0.26272802	1.80282
1200.00	0.215 3	4.63336	3.61 00	16.73546	3.73335	1.63148	0.16617664	2.27214
1400.00	0.19671	5.08366	4.50 22	22.91622	4.75117	2.39755	0.09894068	2.80760
1600.00	0.18276	5.47173	5.51 83	30.15376	5.92649	2.94673	0.05251127	3.39188
1800.00	0.172 9	5.79086	6.61 83	38.33452	7.25818	3.47708	0.03069755	4.05155
2000.00	0.164 4	6.06662	7.83 25	47.55163	8.74725	3.98415	0.01860834	4.76735
2200.00	0.158 9	6.29756	9.16 66	57.73516	10.39302	4.46864	0.01146064	5.54605
2400.00	0.154 3	6.49231	10.61 77	68.88835	12.19555	4.93125	0.00721741	6.39949
2600.00	0.15018	6.65883	12.16 61	81.03000	14.15501	5.37197	0.00464497	7.31679
2800.00	0.14648	6.80355	13.84 45	94.16466	16.27151	5.79187	0.00305226	8.29820
3000.00	0.144 9	6.92569	15.63 40	108.28586	18.54461	6.19279	0.00204412	9.35297
3200.00	0.142 0	7.03217	17.54 78	123.38697	20.97469	6.57547	0.00139415	10.47509
3400.00	0.140 5	7.12523	19.57 23	139.47811	23.56157	6.94119	0.00096712	11.66617
3600.00	0.13879	7.20502	21.72 17	156.52240	26.30513	7.29135	0.00068141	12.92949
3800.00	0.13745	7.27553	23.99 93	174.56127	29.20560	7.62675	0.00048724	14.26212
4000.00	0.13630	7.33680	26.38 99	193.55920	32.26275	7.94859	0.00035316	15.66666
4200.00	0.13530	7.39125	28.89 64	213.54545	35.47675	8.25764	0.00025927	17.14106
4400.00	0.13441	7.43971	31.52 08	234.51522	38.84761	8.55460	0.00019262	18.68605
4600.00	0.13365	7.48249	34.27 43	256.45075	42.37517	8.84091	0.00014469	20.30293
4800.00	0.13296	7.52085	37.14 89	279.36682	46.05955	9.11664	0.00010982	21.99042
5000.00	0.13236	7.55500	40.13 52	303.25401	49.90069	9.38265	0.00008417	23.74997
5200.00	0.13182	7.58584	43.25 57	328.12152	53.89864	9.63962	0.00006510	25.58025
5400.00	0.13134	7.61376	46.49 89	353.97040	58.05340	9.88801	0.00005076	27.48140
5600.00	0.13091	7.63883	49.84 72	380.78585	62.36494	10.12839	0.00003993	29.45475
5800.00	0.13052	7.66169	53.32 10	408.58837	66.83322	10.36121	0.00003164	31.49901
6000.00	0.13017	7.68239	56.92 04	437.35106	71.45829	10.58691	0.00002524	33.61516

T1 = 250.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.30084	3.32957	2.13457	7.11384	1.47429	0.70212	0.50279036	1.40111
1000.00	0.24953	4.00589	2.80591	11.24014	1.76379	1.24263	0.29615027	1.79980
1200.00	0.21987	4.54817	3.59164	16.33086	2.11625	1.80796	0.17024552	2.26851
1400.00	0.20023	4.99436	4.48837	22.39142	2.53252	2.37864	0.09810362	2.80035
1600.00	0.18629	5.36800	5.48191	29.42680	3.01264	2.91900	0.05735245	3.39020
1800.00	0.17597	5.68281	6.58719	37.43374	3.55748	3.44714	0.03419266	4.04397
2000.00	0.16820	5.94543	7.80114	46.38119	4.16604	3.95358	0.02082301	4.76689
2200.00	0.16217	6.17018	9.12436	56.31122	4.83868	4.43687	0.01297188	5.54813
2400.00	0.15710	6.36526	10.56499	67.24895	5.57602	4.89719	0.00826472	6.39626
2600.00	0.15322	6.52653	12.11403	79.08669	6.37710	5.33675	0.00537381	7.31454
2800.00	0.15016	6.66666	13.78736	91.91576	7.24241	5.75552	0.00356599	8.29830
3000.00	0.14782	6.78817	15.57394	105.71867	8.17166	6.15496	0.00241156	9.34994
3200.00	0.14610	6.89161	17.47739	120.45429	9.16543	6.53657	0.00165959	10.47326
3400.00	0.14483	6.98155	19.50152	136.15079	10.22304	6.90132	0.00116111	11.66620
3600.00	0.14386	7.05937	21.64577	152.79144	11.34477	7.25044	0.00082488	12.93039
3800.00	0.14029	7.12785	23.90566	170.39541	12.53063	7.58469	0.00059450	14.26405
4000.00	0.13911	7.18641	26.28252	188.96577	13.78063	7.90567	0.00043423	15.66755
4200.00	0.13810	7.24115	28.78048	208.46897	15.09468	8.21306	0.00032111	17.14349
4400.00	0.13721	7.28824	31.41196	228.93756	16.47286	8.51016	0.00024023	18.66964
4600.00	0.13643	7.32997	34.15468	250.35418	17.91514	8.79542	0.00018168	20.30727
4800.00	0.13573	7.36734	37.01861	272.72878	19.42153	9.07033	0.00013880	21.99568
5000.00	0.13512	7.40071	40.00617	296.05103	20.99201	9.33558	0.00010705	23.75577
5200.00	0.13457	7.43087	43.10975	320.33537	22.62662	9.59174	0.00008330	25.58660
5400.00	0.13408	7.45796	46.33528	345.56654	24.32532	9.83940	0.00006536	27.48925
5600.00	0.13365	7.48239	49.68293	371.74721	26.08811	10.07907	0.00005169	29.46356
5800.00	0.13325	7.50466	53.15176	398.88579	27.91502	10.31120	0.00004118	31.50895
6000.00	0.13289	7.52487	56.74181	426.97476	29.80602	10.53623	0.00003303	33.62598

T1 = 250.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.30584	3.26972	2.12343	6.94296	1.29704	0.68586	0.51767438	1.39929
1000.00	0.25415	3.93471	2.78465	10.97250	1.47895	1.22232	0.30952452	1.79671
1200.00	0.22359	4.46646	3.56542	15.94267	1.70035	1.78483	0.18043358	2.26486
1400.00	0.20365	4.90324	4.45134	21.86020	1.96182	2.34544	0.10537259	2.79647
1600.00	0.18965	5.26739	5.45302	28.72316	2.26353	2.89186	0.06238055	3.38933
1800.00	0.17941	5.57374	6.55433	36.53212	2.60554	3.41646	0.03763843	4.04105
2000.00	0.17135	5.83603	7.76455	45.31415	2.98794	3.92243	0.02320827	4.75927
2200.00	0.16513	6.05571	9.08546	55.01800	3.41068	4.40422	0.01461826	5.54211
2400.00	0.16020	6.24204	10.51929	65.66125	3.87354	4.86375	0.00940642	6.39332
2600.00	0.15625	6.39986	12.06734	77.22930	4.37674	5.30195	0.00617791	7.31182
2800.00	0.15298	6.53677	13.73144	89.75927	4.92023	5.71947	0.00413876	8.29701
3000.00	0.15028	6.65439	15.51 38	103.22536	5.50411	6.11764	0.00282413	9.34977
3200.00	0.14802	6.75577	17.41 97	117.62441	6.12821	6.49826	0.00196054	10.47314
3400.00	0.14612	6.84353	19.42785	132.95506	6.79256	6.86192	0.00138308	11.66657
3600.00	0.14451	6.91980	21.56456	149.21559	7.49714	7.20997	0.00099044	12.93085
3800.00	0.14313	6.98663	23.81151	166.41119	8.24204	7.54343	0.00071926	14.26489
4000.00	0.14194	7.04529	26.19 03	184.53739	9.02726	7.86331	0.00052917	15.67005
4200.00	0.14090	7.09731	28.68742	203.60341	9.85271	8.17051	0.00039409	17.14547
4400.00	0.14000	7.14300	31.30 88	223.58878	10.71841	8.46597	0.00029682	18.69285
4600.00	0.13920	7.18391	34.04846	244.51496	11.62439	8.75035	0.00022594	20.31062
4800.00	0.13850	7.22010	36.89142	266.35959	12.57062	9.02448	0.00017369	22.00074
5000.00	0.13786	7.25271	39.86490	289.14319	13.55713	9.28894	0.00013477	23.76143
5200.00	0.13732	7.28206	42.96799	312.85925	14.58391	9.54434	0.00010548	25.59339
5400.00	0.13683	7.30845	46.17973	337.50205	15.65095	9.79127	0.00008323	27.49711
5600.00	0.13638	7.33235	49.51722	363.07745	16.75825	10.03022	0.00006618	29.47214
5800.00	0.13598	7.35409	52.97452	389.58689	17.90584	10.26165	0.00005300	31.51835
6000.00	0.13562	7.37376	56.55465	417.02064	19.09363	10.48601	0.00004274	33.63662

T1 = 250.00 ALPHA = 0.30

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1T/R	PT2/PT1	(PT2-P2)/P1
800.00	0.31132	3.21212	2.11[illegible]	6.77879	1.21579	0.66997	0.53259571	1.39754
1000.00	0.25864	3.86641	2.77154	10.71596	1.34838	1.20237	0.32262831	1.79361
1200.00	0.22790	4.38793	3.54[illegible]31	15.56973	1.50970	1.76209	0.19071862	2.26126
1400.00	0.20765	4.81577	4.43342	21.35034	1.70022	2.32044	0.11281692	2.79260
1600.00	0.19331	5.17304	5.42437	28.06040	1.92007	2.86476	0.06762111	3.38373
1800.00	0.18269	5.47378	6.52186	35.69922	2.16924	3.38944	0.04128702	4.03467
2000.00	0.17459	5.72772	7.72764	44.26204	2.44769	3.89229	0.02573318	4.75491
2200.00	0.16838	5.93683	9.04416	53.71176	2.75579	4.37304	0.01637287	5.54319
2400.00	0.16352	6.12280	10.47341	64.12659	3.09314	4.83088	0.01064514	6.39163
2600.00	0.15928	6.27836	12.01674	75.44541	3.45983	5.26756	0.00706026	7.30910
2800.00	0.15585	6.41239	13.67[illegible]64	87.69351	3.85589	5.68379	0.00477350	8.29444
3000.00	0.15321	6.52685	15.45[illegible]98	100.84616	4.28129	6.08103	0.00328559	9.34828
3200.00	0.15042	6.62583	17.34[illegible]68	114.91617	4.73604	6.46032	0.00229994	10.47221
3400.00	0.14930	6.71124	19.35[illegible]30	129.89136	5.22013	6.82294	0.00163542	11.66654
3600.00	0.14736	6.78589	21.48[illegible]44	145.78419	5.73357	7.16993	0.00118012	12.93082
3800.00	0.14596	6.85124	23.73147	162.58996	6.27635	7.50238	0.00086529	14.26530
4000.00	0.14475	6.90866	26.09[illegible]73	180.30718	6.84847	7.82130	0.00063961	15.67063
4200.00	0.14370	6.95888	28.58539	198.92232	7.44993	8.12766	0.00047952	17.14810
4400.00	0.14278	7.00364	31.19180	218.45623	8.08074	8.42221	0.00036351	18.69574
4600.00	0.14198	7.04336	33.91[illegible]05	238.89715	8.74088	8.70578	0.00027843	20.31490
4800.00	0.14126	7.07901	36.76435	260.25562	9.43038	8.97905	0.00021533	22.00472
5000.00	0.14063	7.11063	39.73[illegible]72	282.51051	10.14929	9.24274	0.00016804	23.76694
5200.00	0.14007	7.13921	42.81734	305.68207	10.89737	9.49739	0.00013226	25.60000
5400.00	0.13957	7.16510	46.02[illegible]30	329.76875	11.67489	9.74357	0.00010493	27.50402
5600.00	0.13911	7.18830	49.35[illegible]59	354.75[illegible]1	12.48173	9.98182	0.00008387	29.48046
5800.00	0.13871	7.20945	52.79934	380.65431	13.31793	10.21256	0.00006751	31.52795
6000.00	0.13834	7.22871	56.36758	407.46465	14.18346	10.43625	0.00005470	33.64695

T1 = 250.00 ALPHA = 0.40

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.316 0	3.15659	2.[illegible]746	6.620[illegible]	1.16915	0.65445	0.54694638	1.39588
1000.00	0.26311	3.80075	2.75[illegible]	10.46941	1.27345	1.18278	0.33604135	1.79051
1200.00	0.232[illegible]3	4.30986	3.52717	15.20161	1.40028	1.74024	0.20098938	2.25916
1400.00	0.21142	4.72996	4.40[illegible]50	20.85214	1.55009	2.29815	0.12038686	2.78985
1600.00	0.19679	5.08147	5.39575	27.41640	1.72297	2.83821	0.07303446	3.37798
1800.00	0.18610	5.37358	6.40922	34.87034	1.91891	3.36150	0.04508067	4.03197
2000.00	0.17743	5.62030	7.[illegible]98	43.22562	2.13795	3.86292	0.02839302	4.75389
2200.00	0.17141	5.83383	9.[illegible]348	52.52479	2.38015	4.34115	0.01826920	5.53686
2400.00	0.16642	6.00883	10.42775	62.65856	2.64535	4.79835	0.01198529	6.38941
2600.00	0.16229	6.16172	11.96[illegible]24	73.73264	2.93369	5.23358	0.00802370	7.30635
2800.00	0.15891	6.29302	13.61[illegible]94	85.71056	3.24513	5.64852	0.00547299	8.29133
3000.00	0.15612	6.40529	15.38[illegible]77	98.57600	3.57964	6.04451	0.00379896	9.34527
3200.00	0.15383	6.50089	17.27[illegible]44	112.31232	3.9372[illegible]	6.42283	0.00268026	10.47143
3400.00	0.151[illegible]7	6.58477	19.28[illegible]69	126.96026	4.31[illegible]5	6.78431	0.00192058	11.66530
3600.00	0.15021	6.65735	21.40[illegible]41	142.48998	4.7215[illegible]	7.13[illegible]31	0.00139601	12.93049
3800.00	0.14878	6.72112	23.64451	158.91760	5.14833	7.46178	0.00102539	14.26575
4000.00	0.14756	6.77671	26.00440	176.22440	5.59824	7.77982	0.00076703	15.67281
4200.00	0.14650	6.82596	28.48346	194.42746	6.07119	8.08524	0.00057876	17.15030
4400.00	0.14556	6.86986	31.08189	213.52697	6.56721	8.37868	0.00044151	18.69814
4600.00	0.14475	6.90843	33.79974	233.50317	7.08629	8.66164	0.00034019	20.31873
4800.00	0.144[illegible]3	6.94307	36.63729	254.37529	7.62845	8.93411	0.00026461	22.00982
5000.00	0.14348	6.97426	39.59464	276.14310	8.19369	9.19697	0.00020766	23.77180
5200.00	0.14242	7.00199	42.67178	298.78731	8.78198	9.45088	0.00016432	25.60628
5400.00	0.14241	7.02714	45.86890	322.32705	9.39336	9.69634	0.00013104	27.51172
5600.00	0.14165	7.04993	49.18605	346.75603	10.02781	9.93385	0.00010527	29.48846
5800.00	0.14143	7.07052	52.62324	372.07359	10.68532	10.16391	0.00008515	31.53719
6000.00	0.14106	7.08929	56.18057	398.28035	11.36591	10.38693	0.00006932	33.65729

T1 = 250.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.32227	3.10301	2.18465	6.48660	1.13690	0.63430	0.56092809	1.39430
1000.00	0.26756	3.73755	2.73771	10.23235	1.22484	1.16354	0.34914537	1.78745
1200.00	0.23545	4.23994	3.30148	14.66722	1.32934	1.71771	0.21151967	2.24801
1400.00	0.21501	4.65103	4.35593	20.38977	1.45272	2.27156	0.12861060	2.78475
1600.00	0.20028	4.99306	5.36724	26.79987	1.59511	2.81210	0.07861720	3.37288
1800.00	0.18936	5.28106	6.45793	34.09961	1.75652	3.33331	0.04906935	4.02633
2000.00	0.18103	5.52380	7.55971	42.28815	1.93695	3.83293	0.03123045	4.74677
2200.00	0.17457	5.72651	8.96157	51.34245	2.13642	4.31936	0.02027970	5.53484
2400.00	0.16946	5.90040	10.38227	61.25940	2.35487	4.78605	0.01343025	6.38596
2600.00	0.16530	6.04979	11.91564	72.08836	2.59239	5.19999	0.00907095	7.30340
2800.00	0.16186	6.17616	13.50432	83.80249	2.84895	5.61368	0.00623981	8.28842
3000.00	0.15906	6.28084	15.32143	96.36775	3.12455	6.00864	0.00436563	9.34477
3200.00	0.15671	6.38121	17.20467	109.81653	3.41899	6.38569	0.00310423	10.46982
3400.00	0.15474	6.46246	19.20748	124.12754	3.73254	6.74620	0.00224058	11.66539
3600.00	0.15315	6.53399	21.32250	139.32747	4.06513	7.09109	0.00164023	12.92965
3800.00	0.15181	6.59587	23.55760	155.38276	4.41666	7.42103	0.00121641	14.26644
4000.00	0.15057	6.65006	25.91119	172.30479	4.78722	7.73674	0.00091313	15.67437
4200.00	0.14959	6.69829	28.38162	190.10857	5.17679	8.04823	0.00069333	17.15215
4400.00	0.14855	6.74085	30.97199	208.77765	5.58537	8.33604	0.00053203	18.70169
4600.00	0.14752	6.77873	33.68152	228.31784	6.01295	8.61792	0.00041231	20.32228
4800.00	0.14679	6.81250	36.51134	248.72675	6.45954	8.88959	0.00032250	22.01431
5000.00	0.14614	6.84276	39.45456	270.00639	6.92513	9.15169	0.00025444	23.77767
5200.00	0.14556	6.87010	42.52131	292.15995	7.40973	9.40460	0.00020238	25.61214
5400.00	0.14504	6.89455	45.71361	315.17449	7.91333	9.64953	0.00016220	27.51690
5600.00	0.14458	6.91675	49.12456	339.06271	8.43593	9.88634	0.00013093	29.49685
5800.00	0.14416	6.93693	52.44723	363.82262	8.97755	10.11570	0.00010640	31.54616
6000.00	0.14378	6.95520	55.99364	389.44696	9.53819	10.33805	0.00008702	33.66755

T1 = 250.00 ALPHA = 0.60

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.32773	3.05125	2.77194	8.32206	1.31767	0.62453	0.57453216	1.39283
1000.00	0.27199	3.67661	2.72499	10.00408	1.19075	1.14467	0.36212420	1.78445
1200.00	0.23978	4.17051	3.48578	14.53747	1.27957	1.69598	0.22201839	2.24673
1400.00	0.21855	4.57359	4.35937	19.93799	1.38444	2.24762	0.13607900	2.78063
1600.00	0.20372	4.90676	5.33488	26.20735	1.50545	2.78624	0.08437502	3.36757
1800.00	0.19267	5.19031	6.42662	33.34577	1.64264	3.30581	0.05320829	4.02239
2000.00	0.18434	5.42481	7.61806	41.32650	1.79596	3.80438	0.03418503	4.74565
2200.00	0.17767	5.62848	8.92185	50.21647	1.96552	4.27975	0.02241977	5.52986
2400.00	0.17248	5.79787	10.33705	59.93285	2.15121	4.73386	0.01498381	6.38048
2600.00	0.16828	5.94250	11.86557	70.51107	2.35305	5.16673	0.01020469	7.29997
2800.00	0.16481	6.06743	13.50775	81.96341	2.57111	5.57928	0.00707636	8.28587
3000.00	0.16189	6.17306	15.26728	94.24587	2.80527	5.97316	0.00498899	9.34394
3200.00	0.15941	6.26509	17.14225	107.39781	3.05564	6.34912	0.00357372	10.46935
3400.00	0.15728	6.34508	19.13428	121.40797	3.32210	6.70847	0.00259795	11.66463
3600.00	0.15590	6.41440	21.24454	136.26465	3.60475	7.05241	0.00191461	12.93067
3800.00	0.15444	6.47521	23.47176	151.97810	3.90359	7.38192	0.00142919	14.26738
4000.00	0.15318	6.52830	25.81408	168.53499	4.21852	7.69806	0.00107958	15.67556
4200.00	0.15218	6.57545	28.27987	185.95287	4.54963	8.00164	0.00082463	17.15383
4400.00	0.15113	6.61691	30.86222	204.21267	4.89689	8.29359	0.00063642	18.70430
4600.00	0.15029	6.65399	33.56341	223.33056	5.26032	8.57461	0.00049595	20.32537
4800.00	0.14955	6.68689	36.38347	243.29215	5.63983	8.84548	0.00038999	22.01855
5000.00	0.14889	6.71652	39.32263	264.11120	6.03561	9.10678	0.00030928	23.78248
5200.00	0.14830	6.74303	42.38089	285.77574	6.44745	9.35917	0.00024722	25.61846
5400.00	0.14778	6.76698	45.55838	308.29256	6.87551	9.60315	0.00019909	27.52583
5600.00	0.14731	6.78862	48.85515	331.65891	7.31969	9.83925	0.00016146	29.50488
5800.00	0.14688	6.80827	52.27127	355.87673	7.78005	10.06793	0.00013181	31.55547
6000.00	0.14649	6.82621	55.80681	380.94685	8.25652	10.28960	0.00010827	33.67737

T1 = 250.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.33320	3.00119	2.05633	6.18045	1.10195	0.61712	0.58775890	1.39146
1000.00	0.27641	3.61780	2.70440	9.78397	1.16552	1.12615	0.37496318	1.77714
1200.00	0.24366	4.10372	3.46529	14.22025	1.24274	1.67457	0.23255618	2.24475
1400.00	0.22227	4.49903	4.33494	19.50305	1.33391	2.22405	0.14410142	2.77649
1600.00	0.20715	4.82742	5.31161	25.63655	1.43911	2.76479	0.09028707	3.36914
1800.00	0.19567	5.10291	6.39242	32.61995	1.55835	3.27869	0.05750553	4.01862
2000.00	0.18743	5.33520	7.56196	40.45126	1.69167	3.77520	0.03731492	4.73917
2200.00	0.18078	5.53156	8.80117	49.12847	1.83904	4.24964	0.02468364	5.52570
2400.00	0.17556	5.69593	10.29161	58.62029	2.00045	4.70261	0.01663625	6.37897
2600.00	0.17124	5.83987	11.81546	69.00072	2.17595	5.13376	0.01142761	7.29566
2800.00	0.16777	5.96057	13.45326	80.18911	2.36548	5.54532	0.00798488	8.28371
3000.00	0.16491	6.06383	15.20421	92.20782	2.56905	5.93803	0.00567164	9.34231
3200.00	0.16249	6.15415	17.07532	105.08469	2.78668	6.31282	0.00409195	10.46731
3400.00	0.16046	6.23197	19.06198	118.78739	3.01835	6.67116	0.00299485	11.66376
3600.00	0.15874	6.29970	21.16573	133.32517	3.26407	7.01408	0.00222152	12.93065
3800.00	0.15726	6.35899	23.38599	148.69651	3.52385	7.34263	0.00166865	14.26806
4000.00	0.15598	6.41103	25.72204	164.90089	3.79763	7.65780	0.00126806	15.67648
4200.00	0.15487	6.45689	28.17315	181.93826	4.08544	7.96050	0.00097416	17.15618
4400.00	0.15390	6.49760	30.75253	199.81778	4.38737	8.25155	0.00075601	18.70669
4600.00	0.15305	6.53376	33.44534	218.52396	4.70330	8.53174	0.00059229	20.32872
4800.00	0.15230	6.56589	36.25469	238.05760	5.03327	8.80160	0.00046814	22.02268
5000.00	0.15163	6.59488	39.18677	258.43216	5.37729	9.06231	0.00037310	23.78734
5200.00	0.15104	6.62075	42.23557	279.63097	5.73535	9.31394	0.00029967	25.62432
5400.00	0.15051	6.64419	45.40427	301.66799	6.10745	9.55718	0.00024245	27.53233
5600.00	0.15003	6.66524	48.68984	324.52946	6.49359	9.79259	0.00019750	29.51268
5800.00	0.14960	6.68446	52.09543	348.22971	6.89378	10.02057	0.00016193	31.56414
6000.00	0.14921	6.70189	55.62102	372.75960	7.30803	10.24156	0.00013357	33.68756

T1 = 250.00 ALPHA = 0.80

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.33641	2.95326	2.04488	6.04469	1.08985	0.59592	0.60068591	1.38992
1000.00	0.28113	3.55711	2.68762	9.56016	1.14608	1.10895	0.38733247	1.77792
1200.00	0.24756	4.03938	3.44478	13.91477	1.21436	1.65350	0.24311628	2.24202
1400.00	0.22588	4.42713	4.31062	19.08346	1.29499	2.20063	0.15223339	2.77238
1600.00	0.21087	4.74901	5.28245	25.08640	1.38800	2.73570	0.09634682	3.36494
1800.00	0.19965	5.01683	6.36532	31.92137	1.49345	3.25191	0.06195698	4.01488
2000.00	0.19082	5.24613	7.54574	39.58590	1.61133	3.74690	0.04057232	4.73550
2200.00	0.18398	5.43529	8.84630	48.04965	1.74162	4.22043	0.02706064	5.52491
2400.00	0.17853	5.60118	10.24661	57.39342	1.88439	4.67114	0.01840454	6.37324
2600.00	0.17427	5.73838	11.76515	67.51295	2.03955	5.10163	0.01273568	7.29495
2800.00	0.17072	5.85742	13.39782	78.47670	2.20715	5.51179	0.00896746	8.28185
3000.00	0.16782	5.95872	15.14524	90.24629	2.38716	5.90328	0.00641580	9.34002
3200.00	0.16535	6.04773	17.00655	102.86310	2.57961	6.27684	0.00466115	10.46436
3400.00	0.16331	6.12337	18.98791	116.26961	2.78447	6.63419	0.00343367	11.66207
3600.00	0.16156	6.18965	21.08409	130.50307	3.00175	6.97606	0.00256309	12.92952
3800.00	0.16007	6.24710	23.29732	145.54850	3.23143	7.30373	0.00193669	14.26843
4000.00	0.15878	6.29799	25.62809	161.40550	3.47355	7.61795	0.00148028	15.67745
4200.00	0.15766	6.34280	28.07654	178.08390	3.72808	7.91975	0.00114351	17.15786
4400.00	0.15667	6.38265	30.64294	195.58371	3.99504	8.20992	0.00089219	18.70893
4600.00	0.15582	6.41780	33.32734	213.88819	4.27440	8.48930	0.00070256	20.33232
4800.00	0.15506	6.44929	36.12998	233.01276	4.56618	8.75853	0.00055806	22.02673
5000.00	0.15438	6.47757	39.05096	252.95546	4.87039	9.01827	0.00044689	23.79240
5200.00	0.15378	6.50284	42.19031	273.70630	5.18701	9.26914	0.00036059	25.63025
5400.00	0.15324	6.52569	45.24818	295.27572	5.51604	9.51165	0.00029305	27.53940
5600.00	0.15276	6.54634	48.52460	317.65838	5.85749	9.74633	0.00023975	29.52038
5800.00	0.15232	6.56516	51.91967	340.86110	6.21136	9.97362	0.00019740	31.57251
6000.00	0.15193	6.58215	55.43335	364.87049	6.57765	10.19397	0.00016349	33.69715

T1 = 250.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	R2/R1	TS2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.34390	2.90782	2.83461	5.91629	1.98025	0.58160	0.61338288	1.38795
1000.00	0.28518	3.50653	2.67162	9.36614	1.13069	1.09006	0.40021789	1.77404
1200.00	0.25143	3.97729	3.42448	13.62019	1.19167	1.63277	0.25368290	2.23638
1400.00	0.22947	4.35788	4.28642	18.67970	1.26411	2.17795	0.16046663	2.76361
1600.00	0.21397	4.67346	5.25440	24.55621	1.34744	2.71095	0.10254637	3.36069
1800.00	0.20252	4.93778	6.32832	31.24788	1.44193	3.22550	0.06655619	4.01124
2000.00	0.19379	5.16029	7.50962	38.75181	1.54756	3.71696	0.04396954	4.73190
2200.00	0.18697	5.34831	8.80019	47.06549	1.66434	4.19053	0.02958706	5.51769
2400.00	0.18161	5.50641	10.20135	56.17276	1.79224	4.64066	0.02027093	6.37184
2600.00	0.17727	5.64102	11.71490	66.08454	1.93128	5.06980	0.01413530	7.29355
2800.00	0.17367	5.75789	13.34245	76.82432	2.08147	5.47866	0.01002610	8.28013
3000.00	0.17072	5.85740	15.08536	88.35508	2.24278	5.86892	0.00722350	9.33772
3200.00	0.16824	5.94377	16.94467	100.69739	2.41523	6.24148	0.00528226	10.46397
3400.00	0.16617	6.01766	18.91979	113.82652	2.59881	6.59775	0.00391596	11.66201
3600.00	0.16440	6.08266	21.01038	127.76239	2.79351	6.93862	0.00294085	12.93000
3800.00	0.16288	6.13956	23.21680	142.50400	2.99935	7.26517	0.00223528	14.26791
4000.00	0.16156	6.18896	25.53921	158.05070	3.21631	7.57851	0.00171795	15.67839
4200.00	0.16044	6.23283	27.97803	174.36350	3.44442	7.87940	0.00133424	17.15930
4400.00	0.15945	6.27161	30.53338	191.49330	3.68361	8.16872	0.00104634	18.71168
4600.00	0.15857	6.30630	33.20950	209.42917	3.93395	8.44721	0.00082807	20.33470
4800.00	0.15780	6.33694	36.00338	228.15197	4.19543	8.71565	0.00066089	22.03034
5000.00	0.15712	6.36451	38.91526	247.67664	4.46803	8.97461	0.00053168	23.79705
5200.00	0.15651	6.38922	41.94517	267.99696	4.75175	9.22473	0.00043092	25.63568
5400.00	0.15597	6.41156	45.09323	289.11792	5.04661	9.46651	0.00035171	27.54571
5600.00	0.15548	6.43171	48.35946	311.03409	5.35259	9.70048	0.00028895	29.52770
5800.00	0.15504	6.45007	51.74398	333.75216	5.66969	9.92708	0.00023886	31.58099
6000.00	0.15464	6.46662	55.24673	357.25971	5.99792	10.14677	0.00019860	33.70690

T1 = 250.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.34912	2.66431	2.02450	5.79307	1.07246	0.56786	0.62579729	1.38579
1000.00	0.28950	3.45429	2.65547	9.17276	1.11812	1.07235	0.41265434	1.77210
1200.00	0.25528	3.91730	3.40430	13.33556	1.17356	1.61238	0.26424139	2.23113
1400.00	0.23303	4.29129	4.26237	18.29106	1.23894	2.15535	0.16879448	2.76075
1600.00	0.21736	4.60073	5.22247	24.04561	1.31447	2.68652	0.10887923	3.35628
1800.00	0.20578	4.85963	6.29044	30.59833	1.40005	3.19944	0.07129770	4.00766
2000.00	0.19675	5.07755	7.47360	37.94756	1.49572	3.69137	0.04750390	4.72831
2200.00	0.19014	5.25932	8.75948	46.08681	1.60144	4.16196	0.03221334	5.51637
2400.00	0.18467	5.41503	10.15417	54.99604	1.71731	4.61055	0.02224463	6.37039
2600.00	0.18024	5.54819	11.66504	64.71985	1.84326	5.03615	0.01562938	7.29060
2800.00	0.17652	5.66193	13.28718	75.23117	1.97928	5.44591	0.01116271	8.27829
3000.00	0.17382	5.75961	15.02356	86.52980	2.12539	5.83495	0.00809669	9.33548
3200.00	0.17112	5.84380	16.87493	98.61370	2.28159	6.20845	0.00595842	10.46290
3400.00	0.16961	5.91674	18.84168	111.48257	2.44786	6.56157	0.00444456	11.66046
3600.00	0.16772	5.98030	20.92491	125.13721	2.62422	6.90140	0.00335744	12.92841
3800.00	0.16569	6.03536	23.12429	139.56386	2.81064	7.22707	0.00256604	14.26636
4000.00	0.16437	6.08387	25.44044	154.77645	3.00715	7.53945	0.00198282	15.67904
4200.00	0.16322	6.12669	27.87359	170.77263	3.21374	7.83944	0.00154790	17.16072
4400.00	0.16222	6.16462	30.42494	187.55103	3.43041	8.12790	0.00121994	18.71383
4600.00	0.16133	6.19832	33.09164	205.11247	3.65716	8.40556	0.00097005	20.33829
4800.00	0.16055	6.22846	35.87665	223.45751	3.89398	8.67316	0.00077780	22.03409
5000.00	0.15986	6.25547	38.77966	242.58505	4.14089	8.93135	0.00062852	23.80134
5200.00	0.15925	6.27956	41.80011	262.48717	4.39787	9.18072	0.00051160	25.64102
5400.00	0.15870	6.30131	44.93831	283.17089	4.66492	9.42178	0.00041929	27.55245
5600.00	0.15820	6.32107	48.19440	304.64004	4.94206	9.65504	0.00034586	29.53504
5800.00	0.15775	6.33896	51.56835	326.88965	5.22928	9.88096	0.00028702	31.58962
6000.00	0.15735	6.35516	55.06021	349.91750	5.52657	10.09997	0.00023955	33.71629

T1 = 300.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.31955	3.12642	1.93680	6.05919	1.95313	0.54807	0.57806602	1.27508
1000.00	0.26026	3.84225	2.49407	9.59052	2.54640	1.03022	0.35692829	1.60123
1200.00	0.22585	4.42762	3.14969	13.94565	3.26675	1.55257	0.21170355	1.98618
1400.00	0.20354	4.91300	3.89327	19.12765	4.11647	2.08399	0.12443255	2.42359
1600.00	0.18798	5.31976	4.72571	25.13972	5.09634	2.60886	0.07361868	2.91489
1800.00	0.17641	5.66212	5.64793	31.97926	6.20673	3.11943	0.04418253	3.45214
2000.00	0.16693	5.95118	6.66163	39.64452	7.44768	3.61188	0.02700116	4.04930
2200.00	0.16151	6.19141	7.76432	48.09685	8.81894	4.08519	0.01681991	4.70561
2400.00	0.15622	6.40103	8.97816	57.41829	10.32124	4.53748	0.01070035	5.41015
2600.00	0.15202	6.57816	10.26802	67.54467	11.95405	4.97017	0.00694195	6.17337
2800.00	0.14857	6.73064	11.66314	78.50272	13.71759	5.38358	0.00459134	6.99227
3000.00	0.14575	6.86089	13.15819	90.26311	15.61165	5.77894	0.00309200	7.87007
3200.00	0.14340	6.97355	14.74795	102.84561	17.63637	6.15702	0.00211857	8.80529
3400.00	0.14141	7.07164	16.43499	116.25051	19.79177	6.51886	0.00147535	9.79775
3600.00	0.13974	7.15637	18.22057	130.45746	22.07771	6.86563	0.00104302	10.85006
3800.00	0.13829	7.23104	20.12120	145.48904	24.49434	7.19814	0.00074798	11.96025
4000.00	0.13706	7.29610	22.11102	161.32427	27.04152	7.51744	0.00054352	13.13044
4200.00	0.13598	7.35381	24.20265	177.97955	29.71937	7.82430	0.00039990	14.35918
4400.00	0.13504	7.40516	26.39435	195.45434	32.52788	8.11953	0.00029767	15.64646
4600.00	0.13422	7.45048	28.68710	213.73272	35.46695	8.40394	0.00022398	16.99388
4800.00	0.13349	7.49119	31.08080	232.83216	38.53670	8.67815	0.00017027	18.40004
5000.00	0.13285	7.52744	33.57548	252.73732	41.73702	8.94285	0.00013067	19.86615
5200.00	0.13227	7.56016	36.17128	273.46046	45.06801	9.19856	0.00010118	21.39133
5400.00	0.13176	7.58973	38.86826	294.99947	48.52962	9.44569	0.00007901	22.97576
5600.00	0.13130	7.61636	41.66644	317.34685	52.12183	9.68530	0.00006219	24.62010
5800.00	0.13088	7.64061	44.56592	340.51082	55.84469	9.91724	0.00004932	26.32366
6000.00	0.13050	7.66263	47.56671	364.48596	59.69817	10.14215	0.00003938	28.08693

T1 = 300.00 ALPHA = 0.10

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.32585	3.06889	1.92552	5.90922	1.43039	0.53305	0.59332776	1.27054
1000.00	0.26524	3.77020	2.48170	9.35651	1.69943	1.01050	0.37173560	1.59956
1200.00	0.23020	4.34411	3.13223	13.60675	2.02599	1.52944	0.22362955	1.98409
1400.00	0.20750	4.81939	3.87274	18.66434	2.41114	2.05815	0.13325072	2.42151
1600.00	0.19167	5.21730	4.70212	24.53236	2.85529	2.58074	0.07987554	2.91269
1800.00	0.18011	5.55203	5.62114	31.20872	3.35854	3.08931	0.04654229	3.45080
2000.00	0.17139	5.83449	6.63146	38.69119	3.92105	3.57996	0.03002228	4.04783
2200.00	0.16445	6.07354	7.73480	46.97763	4.54272	4.05103	0.01692783	4.69993
2400.00	0.15937	6.27455	8.93260	56.04800	5.22354	4.50233	0.01216635	5.40844
2600.00	0.15511	6.44690	10.22633	65.92819	5.96360	4.93370	0.00797444	6.17258
2800.00	0.15162	6.59543	11.61705	76.61945	6.76293	5.34586	0.00532612	6.99221
3000.00	0.14872	6.72401	13.10559	88.12220	7.62150	5.73975	0.00362151	7.86877
3200.00	0.14634	6.83323	14.69239	100.39647	8.53920	6.11674	0.00250353	8.80510
3400.00	0.14432	6.92898	16.37822	113.48441	9.51616	6.47746	0.00175849	9.79815
3600.00	0.14263	7.01133	18.16330	127.34883	10.55227	6.82320	0.00125342	10.85129
3800.00	0.14116	7.08395	20.04812	142.01993	11.64763	7.15472	0.00090595	11.96256
4000.00	0.13990	7.14799	22.03293	157.49106	12.80221	7.47298	0.00066336	13.13229
4200.00	0.13881	7.20409	24.11786	173.74717	14.01596	7.77892	0.00049162	14.36195
4400.00	0.13785	7.25402	26.30317	190.80363	15.28894	8.07327	0.00036850	15.65033
4600.00	0.13702	7.29844	28.58897	208.65481	16.62113	8.35679	0.00027916	16.99796
4800.00	0.13627	7.33812	30.97540	227.30120	18.01253	8.63017	0.00021360	18.40486
5000.00	0.13562	7.37349	33.46251	246.73536	19.46312	8.89407	0.00016495	19.87172
5200.00	0.13503	7.40551	36.05045	266.97201	20.97294	9.14901	0.00012851	21.39734
5400.00	0.13451	7.43428	38.73924	287.99851	22.54195	9.39558	0.00010094	22.98277
5600.00	0.13404	7.46021	41.52894	309.81456	24.17017	9.63427	0.00007990	24.62810
5800.00	0.13362	7.48386	44.41964	332.43108	25.85760	9.86551	0.00006371	26.33246
6000.00	0.13324	7.50533	47.41133	355.83701	27.60424	10.08974	0.00005115	28.09669

T1 = 300.00 ALPHA = 0.20

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.33205	3.01161	1.91431	5.76516	1.27704	0.51843	0.60811376	1.27106
1000.00	0.27019	3.70111	2.46742	9.13220	1.45100	0.99116	0.38637993	1.59787
1200.00	0.23453	4.26392	3.11485	13.28145	1.66205	1.50673	0.23560932	1.98203
1400.00	0.21143	4.72963	3.82233	18.22019	1.91094	2.03271	0.14224300	2.41744
1600.00	0.19535	5.11897	4.57860	23.94959	2.19795	2.55304	0.08634255	2.91048
1800.00	0.18361	5.44642	5.39442	30.46954	2.52317	3.05961	0.05310721	3.44955
2000.00	0.17484	5.71966	6.26019	37.75651	2.88658	3.54893	0.03321001	4.04868
2200.00	0.16796	5.95379	7.20095	45.84983	3.28831	4.01827	0.02116940	4.70009
2400.00	0.16250	6.15387	8.29514	54.73956	3.72834	4.46753	0.01375676	5.40619
2600.00	0.15820	6.32110	10.18470	64.37849	4.20654	4.89766	0.00910533	6.17172
2800.00	0.15464	6.46645	11.57109	74.82383	4.72307	5.30845	0.00613946	6.99115
3000.00	0.15173	6.59070	13.05469	86.04087	5.27784	5.70128	0.00421166	7.86990
3200.00	0.14928	6.69863	14.63469	98.04715	5.87090	6.07692	0.00293721	8.80463
3400.00	0.14724	6.79165	16.31747	110.82250	6.50220	6.43658	0.00208006	9.79905
3600.00	0.14551	6.87228	18.09708	124.36818	7.17175	6.78122	0.00149442	10.85238
3800.00	0.14402	6.94334	19.97415	138.70121	7.87957	7.11169	0.00108837	11.96395
4000.00	0.14274	7.00553	21.95484	153.80529	8.62565	7.42901	0.00080271	13.13483
4200.00	0.14163	7.06056	24.03343	169.68940	9.40999	7.73399	0.00059908	14.36447
4400.00	0.14066	7.10916	26.21205	186.34555	10.23259	8.02745	0.00045207	15.65384
4600.00	0.13981	7.15256	28.49090	203.78276	11.09346	8.31011	0.00034469	17.00203
4800.00	0.13906	7.19112	30.87003	221.99020	11.99257	8.58268	0.00026538	18.41002
5000.00	0.13839	7.22578	33.34959	240.97667	12.92995	8.84575	0.00020618	19.87724
5200.00	0.13780	7.25691	35.92964	260.73829	13.90560	9.09994	0.00016156	21.40396
5400.00	0.13727	7.28501	38.61025	281.27500	14.91950	9.34575	0.00012762	22.99019
5600.00	0.13679	7.31040	41.39149	302.58854	15.97166	9.58371	0.00010157	24.63600
5800.00	0.13636	7.33347	44.27340	324.67780	17.06209	9.81424	0.00008141	26.34131
6000.00	0.13597	7.35442	47.25600	347.54043	18.19077	10.03779	0.00006570	28.10640

T1 = 300.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.33825	2.95641	1.90917	5.62655	1.20375	0.50422	0.62242369	1.27158
1000.00	0.27512	3.63472	2.45824	8.91684	1.33226	0.97220	0.40064094	1.59619
1200.00	0.23910	4.18235	3.09729	12.95394	1.48807	1.48532	0.24741249	1.98236
1400.00	0.21536	4.64336	3.83198	17.79332	1.67192	2.00769	0.15138880	2.41378
1600.00	0.19912	5.02474	4.65516	23.39099	1.88365	2.52573	0.09301139	2.90814
1800.00	0.18719	5.34514	5.56777	29.76056	2.12398	3.03032	0.05787231	3.44829
2000.00	0.17819	5.61528	6.57132	36.89977	2.39236	3.51740	0.03660611	4.04502
2200.00	0.17119	5.84152	7.66732	44.78879	2.68895	3.98555	0.02357070	4.69805
2400.00	0.16556	6.03637	8.85762	53.46794	3.01384	4.43341	0.01546943	5.40557
2600.00	0.16128	6.20030	10.14313	62.89047	3.36694	4.86206	0.01033763	6.17091
2800.00	0.15785	6.34302	11.52521	73.10463	3.74836	5.27143	0.00703460	6.98966
3000.00	0.15470	6.46425	13.00438	84.06350	4.15799	5.66303	0.00486761	7.86854
3200.00	0.15224	6.56873	14.58137	95.78114	4.59587	6.03763	0.00342246	8.80518
3400.00	0.15016	6.65965	16.25676	108.26441	5.06201	6.39616	0.00244298	9.79998
3600.00	0.14839	6.73879	18.03093	121.50670	5.55643	6.73968	0.00176661	10.85343
3800.00	0.14686	6.80846	19.90424	135.51758	6.07906	7.06909	0.00129749	11.96492
4000.00	0.14558	6.86914	21.87686	150.27519	6.62995	7.38545	0.00096363	13.13649
4200.00	0.14445	6.92275	23.94906	165.79336	7.20904	7.68951	0.00072400	14.36695
4400.00	0.14347	6.97012	26.12100	182.06662	7.81648	7.98208	0.00054986	15.65710
4600.00	0.14260	7.01236	28.39286	199.10161	8.45213	8.26389	0.00042186	17.00621
4800.00	0.14184	7.05025	30.76475	216.89913	9.11603	8.53560	0.00032675	18.41439
5000.00	0.14116	7.08394	33.23672	235.44609	9.80817	8.79789	0.00025532	19.88267
5200.00	0.14056	7.11434	35.80890	254.75677	10.52857	9.05130	0.00020119	21.41015
5400.00	0.14002	7.14183	38.48135	274.82710	11.27723	9.29636	0.00015978	22.99696
5600.00	0.13954	7.16656	41.25409	295.64999	12.05412	9.53360	0.00012783	24.64382
5800.00	0.13910	7.18907	44.12721	317.23341	12.85927	9.76343	0.00010299	26.35005
6000.00	0.13870	7.20961	47.10075	339.57809	13.69269	9.98629	0.00008352	28.11562

T1 = 300.00 ALPHA = 0.40

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.34445	2.90315	1.49209	5.49312	1.16077	0.49040	0.63625869	1.27212
1000.00	0.28015	3.57084	2.03413	8.70976	1.26271	0.95362	0.41510083	1.59456
1200.00	0.24314	4.11287	3.08053	12.66912	1.38622	1.46247	0.25965575	1.97792
1400.00	0.21927	4.56060	3.81171	17.38367	1.53186	1.96304	0.16067624	2.41038
1600.00	0.20217	4.93422	4.63179	22.85499	1.69974	2.49582	0.09986612	2.90578
1800.00	0.19017	5.24456	5.54198	29.08016	1.89002	3.00200	0.06279771	3.44940
2000.00	0.18142	5.51208	6.54134	36.05836	2.10272	3.48676	0.04016393	4.04374
2200.00	0.17455	5.73564	7.63089	43.78959	2.33777	3.95292	0.02613222	4.69433
2400.00	0.16885	5.92250	8.82110	52.23786	2.59515	4.39686	0.01730666	5.40594
2600.00	0.16436	6.08423	10.10161	61.40851	2.87497	4.82688	0.01167412	6.17013
2800.00	0.16056	6.22447	11.47240	71.45320	3.17721	5.23483	0.00801447	6.98812
3000.00	0.15726	6.34264	12.93341	82.16196	3.50177	5.62524	0.00559175	7.86738
3200.00	0.15516	6.44464	14.52450	93.61762	3.84477	5.99864	0.00396305	8.80438
3400.00	0.15316	6.53336	16.19417	105.81539	4.21813	6.35610	0.00285034	9.80007
3600.00	0.15127	6.61061	17.96463	118.75869	4.61984	6.69857	0.00207857	10.85431
3800.00	0.14973	6.67861	19.83536	132.45258	5.04982	7.02697	0.00153556	11.96627
4000.00	0.14842	6.73762	21.79486	146.87258	5.46053	7.34239	0.00114806	13.13892
4200.00	0.14727	6.79004	23.86470	162.04220	5.91944	7.64551	0.00086815	14.37005
4400.00	0.14627	6.83663	26.03102	177.95762	6.42074	7.93714	0.00066346	15.65997
4600.00	0.14540	6.87778	28.29489	194.60593	6.91442	8.21810	0.00051205	17.01008
4800.00	0.14462	6.91465	30.65649	211.99961	7.43048	8.48900	0.00039888	18.41929
5000.00	0.14393	6.94777	33.12592	230.13736	7.97894	8.75046	0.00031344	19.88767
5200.00	0.14332	6.97736	35.68721	249.00962	8.54977	9.00310	0.00024830	21.41621
5400.00	0.14277	7.00414	38.35247	268.62503	9.14299	9.24743	0.00019822	23.00402
5600.00	0.14228	7.02845	41.11177	288.98624	9.75861	9.48392	0.00015939	24.65113
5800.00	0.14184	7.05033	43.96508	310.08119	10.39661	9.71307	0.00012903	26.35853
6000.00	0.14144	7.07032	46.94452	331.91996	11.05698	9.93525	0.00010513	28.12526

T1 = 300.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.35074	2.85111	1.88[illegible]02	5.36209	1.13255	0.47714	0.64952799	1.27299
1000.00	0.28456	3.50928	2.42[illegible]11	8.51041	1.21697	0.93542	0.42914411	1.59298
1200.00	0.24740	4.04205	3.06[illegible]23	12.38172	1.31927	1.44883	0.27178552	1.97565
1400.00	0.22315	4.48120	3.79153	16.99061	1.43984	1.95874	0.17009249	2.41315
1600.00	0.20631	4.84718	4.59[illegible]50	22.33825	1.57885	2.47229	0.10690095	2.89832
1800.00	0.19401	5.15437	5.[illegible]1467	28.42466	1.73634	2.97293	0.06797519	3.44579
2000.00	0.18474	5.41310	6.51[illegible]44	35.24704	1.91243	3.45648	0.04389691	4.04229
2200.00	0.17765	5.62914	7.60[illegible]19	42.78257	2.10694	3.92147	0.02862725	4.69495
2400.00	0.17210	5.81396	8.78[illegible]79	51.06224	2.32006	4.36655	0.01927444	5.40538
2600.00	0.16743	5.97271	10.06[illegible]16	60.08679	2.55174	4.79211	0.01311742	6.16850
2800.00	0.16348	6.10951	11.43[illegible]58	69.85472	2.80195	5.19878	0.00908085	6.96768
3000.00	0.16005	6.22465	12.90340	80.31919	3.07065	5.58602	0.00638626	7.80767
3200.00	0.15610	6.32499	14.47[illegible]62	91.52640	3.35791	5.96019	0.00456116	8.80467
3400.00	0.15506	6.41203	16.13[illegible]64	103.46227	3.66369	6.31645	0.00330483	9.79995
3600.00	0.15414	6.48758	17.89[illegible]82	116.12688	3.98801	6.65785	0.00242695	10.85452
3800.00	0.15238	6.55375	19.76[illegible]54	129.50553	4.33086	6.98526	0.00180493	11.96755
4000.00	0.15125	6.61144	21.72[illegible]97	143.60[illegible]0	4.69225	7.29972	0.00135819	13.14072
4200.00	0.15009	6.66286	23.78[illegible]46	158.44[illegible]8	5.07215	7.60188	0.00103344	14.37198
4400.00	0.14917	6.70813	25.93[illegible]07	174.00270	5.47060	7.89265	0.00079447	15.66312
4600.00	0.14838	6.74835	28.19[illegible]97	190.28317	5.88757	8.17275	0.00061669	17.01384
4800.00	0.14760	6.78440	30.55[illegible]31	207.29287	6.32308	8.44281	0.00048306	18.42364
5000.00	0.14670	6.81064	33.01[illegible]15	225.02521	6.77713	8.70349	0.00038161	19.89314
5200.00	0.14608	6.84567	35.56759	243.48410	7.24977	8.95534	0.00030386	21.42202
5400.00	0.14552	6.87178	38.22366	262.66464	7.74081	9.19893	0.00024380	23.01079
5600.00	0.14502	6.89544	40.97946	282.57126	8.25045	9.43471	0.00019698	24.65902
5800.00	0.14457	6.91697	43.83503	303.20576	8.77863	9.66313	0.00016022	26.36666
6000.00	0.14417	6.93642	46.79036	324.55774	9.32534	9.88465	0.00013113	28.13459

T1 = 300.00 ALPHA = 0.60

UN1	UR2/UR1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.35673	2.80324	1.87022	5.24268	1.11263	0.46360	0.66272423	1.27167
1000.00	0.28946	3.44988	2.41117	8.31820	1.18465	0.91761	0.44295740	1.59148
1200.00	0.25184	3.97397	3.04821	12.10555	1.27191	1.41954	0.28374329	1.97335
1400.00	0.22702	4.40484	3.77143	16.61258	1.37475	1.93460	0.17901734	2.41066
1600.00	0.20993	4.76360	4.58529	21.84245	1.49333	2.44613	0.11410131	2.89673
1800.00	0.19757	5.06150	5.48803	27.77764	1.62264	2.94537	0.07326382	3.44574
2000.00	0.18837	5.31722	6.48156	34.46386	1.77784	3.42671	0.04779542	4.04139
2200.00	0.18087	5.52887	7.56671	41.83532	1.94574	3.89006	0.03168217	4.69359
2400.00	0.17510	5.71107	8.74548	49.94666	2.12556	4.33345	0.02137647	5.40231
2600.00	0.17048	5.86566	10.01880	58.76701	2.32314	4.75771	0.01467005	6.16646
2800.00	0.16669	5.99919	11.38782	68.31774	2.53655	5.16313	0.01023737	6.98709
3000.00	0.16362	6.11166	12.85300	78.55322	2.76574	5.55115	0.00725523	7.86723
3200.00	0.16134	6.20976	14.41530	89.51556	3.01075	5.92214	0.00522004	8.80480
3400.00	0.15866	6.29468	16.07510	101.18757	3.27157	6.27732	0.00380883	9.80084
3600.00	0.15721	6.36886	17.83283	113.57472	3.54820	6.61761	0.00281611	10.85525
3800.00	0.15543	6.43365	19.68878	126.67064	3.84063	6.94401	0.00210794	11.96869
4000.00	0.15408	6.49008	21.64314	140.46570	4.14886	7.25747	0.00159607	13.14232
4200.00	0.15290	6.54009	23.69622	154.97585	4.47291	7.55873	0.00122166	14.37468
4400.00	0.15187	6.58437	25.84817	170.19300	4.81276	7.84861	0.00094457	15.66647
4600.00	0.15097	6.62385	28.09913	186.12440	5.16842	8.12781	0.00073728	17.01741
4800.00	0.15017	6.65906	30.44919	202.76314	5.53989	8.39705	0.00058059	18.42789
5000.00	0.14946	6.69069	32.89849	220.11365	5.92717	8.65691	0.00046103	19.89770
5200.00	0.14883	6.71894	35.44702	238.16654	6.33025	8.90801	0.00036894	21.42770
5400.00	0.14827	6.74442	38.09491	256.92701	6.74913	9.15085	0.00029742	23.01738
5600.00	0.14776	6.76754	40.84223	276.40126	7.18383	9.38591	0.00024142	24.66642
5800.00	0.14731	6.78849	43.68899	296.58239	7.63433	9.61365	0.00019725	26.37525
6000.00	0.14689	6.80760	46.63526	317.47396	8.10064	9.83447	0.00016215	28.14364

T1 = 300.00 ALPHA = 0.70

UN1	U2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.36272	2.75696	1.35950	5.12660	1.09773	0.45042	0.67547780	1.27011
1000.00	0.29474	3.39278	2.39733	8.13361	1.16057	0.90012	0.45655659	1.58992
1200.00	0.25586	3.90841	3.32928	11.83967	1.23664	1.39560	0.29575026	1.97103
1400.00	0.23088	4.33125	3.75141	16.24830	1.32624	1.91125	0.18923294	2.40818
1600.00	0.21353	4.68313	4.50215	21.36515	1.42964	2.42033	0.12145507	2.89516
1800.00	0.20089	4.97793	5.46186	27.18877	1.54674	2.91709	0.07879512	3.44011
2000.00	0.19135	5.22607	6.45183	33.71772	1.67762	3.39712	0.05186917	4.03793
2200.00	0.18397	5.43561	7.53356	40.94949	1.82229	3.85446	0.03470451	4.68920
2400.00	0.17818	5.61236	8.70436	48.87442	1.98071	4.30066	0.02361064	5.39877
2600.00	0.17352	5.76316	9.97754	57.50219	2.15292	4.72362	0.01633456	6.16386
2800.00	0.16969	5.89314	11.34215	66.84089	2.33892	5.12784	0.01148671	6.98552
3000.00	0.16658	6.00313	12.80269	76.85615	2.53866	5.51463	0.00820118	7.86641
3200.00	0.16395	6.09960	14.36013	87.59100	2.75225	5.88438	0.00594301	8.80368
3400.00	0.16175	6.18240	16.01470	99.00936	2.97959	6.23846	0.00436568	9.80045
3600.00	0.15989	6.25429	17.76686	111.11919	3.22065	6.57781	0.00324853	10.85639
3800.00	0.15829	6.31769	19.61703	123.93446	3.47557	6.90319	0.00244681	11.97040
4000.00	0.15691	6.37317	21.56536	137.43975	3.74424	7.21564	0.00186382	13.14396
4200.00	0.15572	6.42195	23.61205	151.63536	4.02668	7.51599	0.00143476	14.37714
4400.00	0.15467	6.46550	25.75737	166.53430	4.32291	7.80493	0.00111553	15.66894
4600.00	0.15375	6.50409	28.00156	182.12336	4.63291	8.08326	0.00087536	17.02048
4800.00	0.15294	6.53831	30.34492	198.39936	4.95668	8.35171	0.00069285	18.43222
5000.00	0.15223	6.56914	32.78782	215.37451	5.29424	8.61079	0.00055289	19.90301
5200.00	0.15159	6.59679	35.32640	233.04135	5.64557	8.86111	0.00044457	21.43366
5400.00	0.15102	6.62180	37.96623	251.40472	6.01066	9.10319	0.00036005	23.02369
5600.00	0.15050	6.64436	40.70506	270.45904	6.38957	9.33753	0.00029357	24.67369
5800.00	0.15004	6.66490	43.54305	290.21026	6.78224	9.56456	0.00024090	26.38308
6000.00	0.14962	6.68351	46.48021	310.65041	7.18868	9.78472	0.00019886	28.15261

T1 = 300.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	R2/R1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.36653	2.71275	1.44169	5.01550	1.08823	0.43744	0.66788399	1.26847
1000.00	0.29956	3.33818	2.33961	7.95699	1.14194	0.86265	0.46997043	1.58612
1200.00	0.26017	3.84517	3.31144	11.26330	1.20933	1.37402	0.30770897	1.96874
1400.00	0.23472	4.26033	4.33147	15.09729	1.28873	1.88405	0.19892573	2.40570
1600.00	0.21720	4.60405	5.38994	20.09784	1.36035	2.39522	0.12691523	2.89469
1800.00	0.20491	4.89463	6.48857	26.60510	1.48413	2.88971	0.08445573	3.43682
2000.00	0.19457	5.13681	8.62204	32.98889	1.60005	3.36818	0.05619255	4.03570
2200.00	0.18720	5.34201	7.50017	40.06594	1.72025	3.82793	0.03765578	4.68840
2400.00	0.18126	5.51686	8.57127	47.83810	1.86865	4.26832	0.02597463	5.39572
2600.00	0.17654	5.66436	9.73635	56.28329	2.02123	4.68992	0.01811130	6.16130
2800.00	0.17268	5.79112	11.99755	65.41971	2.18604	5.09292	0.01263066	6.98373
3000.00	0.16953	5.89662	12.75244	75.22174	2.36304	5.47851	0.00922638	7.86549
3200.00	0.16687	5.99273	14.31094	85.72541	2.55225	5.84713	0.00673144	8.80365
3400.00	0.16465	6.07366	15.95439	96.90099	2.75369	6.20014	0.00497718	9.80098
3600.00	0.16274	6.14466	17.70106	108.76727	2.96733	6.53830	0.00372713	10.85604
3800.00	0.16113	6.20602	19.54535	121.29859	3.19317	6.86277	0.00282391	11.97192
4000.00	0.15973	6.26043	21.45763	134.52186	3.43122	7.17423	0.00216353	13.14572
4200.00	0.15852	6.30822	23.52794	148.41960	3.68148	7.47363	0.00167475	14.37924
4400.00	0.15747	6.35062	25.66657	162.99886	3.94395	7.76171	0.00130901	15.67210
4600.00	0.15654	6.38827	27.90358	178.25572	4.21863	8.03922	0.00103244	17.02454
4800.00	0.15572	6.42192	30.23910	194.19290	4.50551	8.30679	0.00082125	18.43649
5000.00	0.15499	6.45207	32.67723	210.80985	4.80461	8.56507	0.00065848	19.90798
5200.00	0.15434	6.47915	35.20804	228.10577	5.11591	8.81462	0.00053192	21.43923
5400.00	0.15376	6.50359	37.83759	246.08041	5.43942	9.05595	0.00043272	23.03008
5600.00	0.15324	6.52563	40.56793	264.73116	5.77513	9.28958	0.00035434	24.68093
5800.00	0.15277	6.54571	43.39715	284.06511	6.12305	9.51591	0.00029198	26.39119
6000.00	0.15235	6.56388	46.32421	304.07326	6.48319	9.73539	0.00024201	28.16166

T1 = 300.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.37491	2.66728	1.[illegible]	4.90[illegible]	1.07704	0.42459	0.69939675	1.26849
1000.00	0.30435	3.28566	2.[illegible]	7.78[illegible]	1.12709	0.86586	0.48316402	1.58625
1200.00	0.26426	3.78411	2.99564	11.33596	1.18761	1.35780	0.31960340	1.96649
1400.00	0.23634	4.19214	3.71163	15.25946	1.25891	1.86516	0.20609164	2.40306
1600.00	0.22071	4.53092	4.51411	20.46247	1.34111	2.36982	0.13457741	2.89203
1800.00	0.20773	4.81399	5.40432	26.04049	1.43424	2.86277	0.09026703	3.43396
2000.00	0.19792	5.05256	6.39251	32.29849	1.53832	3.33926	0.06049021	4.03200
2200.00	0.19034	5.25365	7.46700	39.22916	1.65336	3.79742	0.04116487	4.68579
2400.00	0.18445	5.42156	8.63496	46.80966	1.77934	4.23695	0.02845540	5.39618
2600.00	0.17973	5.56700	9.89501	55.08556	1.91631	4.65499	0.01999481	6.16133
2800.00	0.17589	5.69190	11.25093	64.03923	2.06423	5.05654	0.01426962	6.98309
3000.00	0.17248	5.79780	12.70225	73.64515	2.22311	5.44278	0.01033291	7.86461
3200.00	0.16980	5.88941	14.24977	83.92277	2.39294	5.81633	0.00758797	8.80366
3400.00	0.16754	5.96887	15.89496	94.86892	2.57373	6.16219	0.00564613	9.80120
3600.00	0.16552	6.03805	17.63819	106.48217	2.76548	6.49434	0.00425345	10.85740
3800.00	0.16377	6.09862	19.47778	118.76318	2.96819	6.82271	0.00324161	11.97268
4000.00	0.16256	6.15167	21.40795	131.70855	3.18186	7.13323	0.00249729	13.14739
4200.00	0.16133	6.19856	23.44293	145.31868	3.40648	7.43188	0.00194348	14.36126
4400.00	0.16026	6.23994	25.57784	159.59170	3.64205	7.71889	0.00152684	15.67490
4600.00	0.15931	6.27695	27.80593	174.53654	3.88857	7.99550	0.00121024	17.02748
4800.00	0.15849	6.30973	30.13415	190.13882	4.14601	8.26227	0.00096726	18.44047
5000.00	0.15775	6.33921	32.56271	206.40929	4.41455	8.51975	0.00077912	19.91273
5200.00	0.15709	6.36577	35.18866	223.34799	4.69396	8.76752	0.00063218	21.44441
5400.00	0.15651	6.38956	37.70901	240.94416	4.98433	9.00513	0.00051648	23.03644
5600.00	0.15598	6.41114	40.43088	259.20810	5.28565	9.24202	0.00042470	24.68799
5800.00	0.15550	6.43076	43.25130	278.13942	5.59793	9.46766	0.00035137	26.39910
6000.00	0.15507	6.44854	46.17128	297.73130	5.92117	9.68446	0.00029237	28.17045

T1 = 300.00 ALPHA = 1.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.38092	2.62521	1.32755	4.79749	1.00958	0.41350	0.71063739	1.26757
1000.00	0.30911	3.23506	2.35448	7.62837	1.11494	0.84916	0.49612659	1.58432
1200.00	0.26644	3.72519	2.97702	11.09734	1.19788	1.33792	0.33142752	1.96423
1400.00	0.24284	4.12651	3.59169	15.23456	1.28455	1.84259	0.21651195	2.40035
1600.00	0.22927	4.45896	4.19722	20.03529	1.37487	2.34506	0.14432619	2.89036
1800.00	0.21111	4.73091	5.68 21	25.49978	1.49356	2.83405	0.09623724	3.43067
2000.00	0.20119	4.97046	6.38795	31.62696	1.48795	3.31007	0.06503232	4.02918
2200.00	0.19352	5.16746	7.43853	38.41419	1.59227	3.76746	0.04461227	4.66410
2400.00	0.18751	5.33307	8.09705	45.86655	1.70855	4.20532	0.03104062	5.39295
2600.00	0.18261	5.47625	9.45407	53.96339	1.83077	4.62385	0.02200184	6.15749
2800.00	0.17869	5.59617	11.20837	62.70716	1.96491	5.02455	0.01566584	6.98248
3000.00	0.17542	5.70045	12.85911	72.12269	2.10901	5.40746	0.01152264	7.86384
3200.00	0.17271	5.79002	14.14474	82.18767	2.26302	5.77386	0.00851541	8.80317
3400.00	0.17040	5.86839	15.83877	92.91872	2.42701	6.12451	0.00637537	9.80011
3600.00	0.16846	5.93613	17.58652	104.29405	2.60094	6.46161	0.00483085	10.85685
3800.00	0.16680	5.99513	19.43229	116.31936	2.78474	6.78802	0.00370208	11.97299
4000.00	0.16538	6.04676	21.33933	128.99157	2.97851	7.09962	0.00286722	13.14889
4200.00	0.16413	6.09270	23.32945	142.32515	3.18223	7.39914	0.00224289	14.38325
4400.00	0.16305	6.13327	25.40522	156.30776	3.39589	7.67744	0.00177083	15.67728
4600.00	0.16209	6.16925	27.76427	170.93919	3.61948	7.95263	0.00141030	17.03121
4800.00	0.16125	6.20162	30.06730	186.23029	3.85301	8.21713	0.00113238	18.44391
5000.00	0.16050	6.23037	32.44526	202.16458	4.09647	8.47483	0.00091616	19.91714
5200.00	0.15984	6.25632	34.90533	218.75497	4.34988	8.72262	0.00074657	21.44966
5400.00	0.15925	6.27954	37.54549	235.98820	4.61322	8.96270	0.00061247	23.04265
5600.00	0.15871	6.30075	40.29794	253.88177	4.88650	9.19486	0.00050566	24.69460
5800.00	0.15823	6.31991	43.10554	272.42324	5.16972	9.41980	0.00041997	26.40668
6000.00	0.15780	6.33726	46.01541	291.61184	5.46287	9.63793	0.00035077	28.17900

T1 = 350.00 ALPHA = 0.

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.34422	2.90514	1.78790	5.17959	1.80175	0.42488	0.65384871	1.18389
1000.00	0.27525	3.63309	2.26104	8.21456	2.31345	0.85361	0.42567346	1.45663
1200.00	0.23579	4.24113	2.81461	11.95467	2.93265	1.33521	0.26310191	1.78143
1400.00	0.21055	4.74946	3.42629	16.40132	3.66193	1.83561	0.15448465	2.15333
1600.00	0.19318	5.17662	4.08464	21.55870	4.50232	2.33712	0.09608523	2.56993
1800.00	0.18062	5.53636	4.79549	27.42436	5.45423	2.82941	0.05904759	3.03020
2000.00	0.17136	5.83559	5.52 98	33.96884	6.51754	3.30810	0.03658557	3.54410
2200.00	0.16429	6.09421	6.26799	41.25180	7.69305	3.76903	0.02307440	4.10009
2400.00	0.15861	6.31273	7.79144	49.22950	8.98029	4.21219	0.01461391	4.70540
2600.00	0.15385	6.49967	8.91149	57.91520	10.37942	4.63709	0.00968580	5.35802
2800.00	0.15015	6.65983	10.10596	67.30395	11.89044	5.04417	0.00644663	6.05999
3000.00	0.14712	6.79737	11.35852	77.39146	13.51335	5.43408	0.00436525	6.81068
3200.00	0.14459	6.91594	12.74571	88.17621	15.24811	5.80704	0.00300452	7.61192
3400.00	0.14247	7.01686	14.19000	99.66085	17.09477	6.16567	0.00210031	8.46311
3600.00	0.14068	7.10836	15.73572	111.84089	19.05332	6.50910	0.00148981	9.36496
3800.00	0.13914	7.18697	17.35218	124.72400	21.12381	6.83876	0.00107144	10.31649
4000.00	0.13782	7.25563	19.06756	138.30019	23.30615	7.15554	0.00078052	11.31910
4200.00	0.13667	7.31672	20.85408	152.57648	25.60042	7.46022	0.00057553	12.37209
4400.00	0.13567	7.37077	22.73189	167.55169	28.00662	7.75355	0.00042922	13.47574
4600.00	0.13479	7.41871	24.69709	183.22645	30.52469	8.03626	0.00032352	14.63046
4800.00	0.13402	7.46165	26.74981	199.59041	33.15471	8.30898	0.00024630	15.83571
5000.00	0.13333	7.50004	28.88711	216.65443	35.89659	8.57233	0.00018927	17.09215
5200.00	0.13272	7.53461	31.11207	234.41729	38.75041	8.82687	0.00014674	18.39939
5400.00	0.13217	7.56580	33.42375	252.87756	41.71614	9.07311	0.00011471	19.75759
5600.00	0.13168	7.59399	35.82220	272.03356	44.79377	9.31154	0.00009037	21.16687
5800.00	0.13124	7.61961	38.30746	291.88776	47.98332	9.54261	0.00007173	22.62709
6000.00	0.13084	7.64293	40.87956	312.43967	51.28479	9.76672	0.00005733	24.13830

T1 = 350.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.35113	2.84797	1.77101	5.04947	1.39215	0.41140	0.86539087	1.18430
1000.00	0.28065	3.56314	2.24161	8.01[illegible]	1.64384	0.83409	0.44146907	1.45601
1200.00	0.24043	4.15927	2.80389	11.66214	1.94825	1.31265	0.27652231	1.78049
1400.00	0.21471	4.65737	3.43407	16.00385	2.30868	1.81814	0.16968212	2.15219
1600.00	0.19713	5.07542	4.14384	21.03679	2.71971	2.30859	0.10423858	2.56762
1800.00	0.18440	5.42289	4.93376	26.73897	3.16741	2.79966	0.06446211	3.03155
2000.00	0.17469	5.72456	5.79560	33.17643	3.71027	3.27500	0.04047093	3.53973
2200.00	0.16743	5.97605	6.74169	40.28276	4.28794	3.73437	0.02560914	4.09763
2400.00	0.16163	6.18666	7.76673	48.05146	4.92048	4.17631	0.01674247	4.70435
2600.00	0.15710	6.36946	8.87127	56.53066	5.60807	4.59972	0.01105966	5.35743
2800.00	0.15324	6.52569	10.06700	65.69470	6.35066	5.00543	0.00743353	6.06023
3000.00	0.15014	6.66042	11.34262	75.54654	7.14825	5.39398	0.00508094	6.81082
3200.00	0.14758	6.77589	12.70259	86.07139	8.00079	5.76435	0.00352839	7.61290
3400.00	0.14542	6.87669	14.14744	97.28754	8.90833	6.12317	0.00248781	8.46409
3600.00	0.14360	6.96394	15.67744	109.17675	9.87086	6.46552	0.00177917	9.36655
3800.00	0.14203	7.04059	17.29294	121.75242	10.88543	6.79413	0.00128961	10.31671
4000.00	0.14069	7.10800	18.99413	135.01037	11.96097	7.10989	0.00094660	11.32151
4200.00	0.13952	7.16738	20.78119	148.94666	13.08649	7.41362	0.00070306	12.37528
4400.00	0.13850	7.22006	22.65428	163.56578	14.27102	7.70603	0.00052799	13.47952
4600.00	0.13761	7.26715	24.61353	178.87024	15.50355	7.98783	0.00040066	14.63427
4800.00	0.13682	7.30900	26.65901	194.85[illegible]	16.78308	8.25970	0.00030701	15.84035
5000.00	0.13612	7.34643	28.79082	211.50978	18.14864	8.52224	0.00023741	17.09747
5200.00	0.13550	7.38018	31.00903	228.85215	19.55112	8.77599	0.00018517	18.40536
5400.00	0.13494	7.41061	33.31370	246.87496	21.00863	9.02147	0.00014560	19.76428
5600.00	0.13444	7.43812	35.70488	265.57729	22.52113	9.25918	0.00011537	21.17431
5800.00	0.13399	7.46318	38.18262	284.96378	24.08867	9.48952	0.00009207	22.63510
6000.00	0.13359	7.48587	40.74692	305.02685	25.71118	9.71295	0.00007397	24.14732

T1 = 350.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.358[illegible]5	2.79290	1.75[illegible]14	4.92426	1.25855	0.39835	0.08236894	1.18482
1000.00	0.286[illegible]4	3.49596	2.23863	7.61921	1.42545	0.61858	0.45663341	1.45541
1200.00	0.245[illegible]6	4.08059	2.76022	11.38167	1.52721	1.29052	0.26992021	1.77961
1400.00	0.216[illegible]7	4.56697	3.41[illegible]9	15.62085	1.66474	1.78490	0.18042113	2.15106
1600.00	0.200[illegible]7	4.97640	4.12508	20.53625	2.13642	2.26105	0.11208386	2.56553
1800.00	0.187[illegible]6	5.32298	4.90[illegible]51	26.12791	2.44840	2.76891	0.07019051	3.02751
2000.00	0.17814	5.61344	5.77[illegible]45	32.39209	2.79474	3.24304	0.04453741	3.53865
2200.00	0.17076	5.85604	6.71[illegible]08	39.30625	3.17742	3.70114	0.02869773	4.10021
2400.00	0.164[illegible]4	6.06659	7.73[illegible]08	46.92556	3.59661	4.14080	0.01882160	4.70300
2600.00	0.16014	6.24454	8.84[illegible]09	55.20227	4.05220	4.56279	0.01255520	5.35692
2800.00	0.156[illegible]0	6.39780	10.[illegible]13	64.15795	4.54424	4.96702	0.00851909	6.05930
3000.00	0.153[illegible]8	6.52634	11.29971	73.76632	5.07267	5.35642	0.00567456	6.81176
3200.00	0.150[illegible]5	6.64253	12.[illegible]57	84.06494	5.63752	5.72537	0.00411540	7.61267
3400.00	0.148[illegible]5	6.74059	14.[illegible]94	95.01500	6.23591	6.08109	0.00262546	8.46467
3600.00	0.14651	6.82542	15.[illegible]21	106.62129	6.87663	6.42239	0.00210857	9.36798
3800.00	0.144[illegible]2	6.90059	17.23[illegible]78	118.90946	7.55085	6.74491	0.00153999	10.32023
4000.00	0.14355	6.96621	18.[illegible]2775	131.85471	8.26149	7.06470	0.00113856	11.32387
4200.00	0.142[illegible]7	7.02417	20.70934	145.46595	9.[illegible]850	7.36747	0.00085153	12.37821
4400.00	0.14133	7.07561	22.57[illegible]71	159.74412	9.79207	7.65[illegible]97	0.00064379	13.48309
4600.00	0.14042	7.12145	24.52497	174.68804	10.61203	7.93990	0.00049169	14.63872
4800.00	0.139[illegible]2	7.16235	25.56[illegible]23	190.29811	11.46843	8.21092	0.00037911	15.84533
5000.00	0.13891	7.19902	28.69455	206.57256	12.36127	8.47263	0.00029493	17.10285
5200.00	0.13828	7.23191	30.90[illegible]01	223.50949	13.29054	8.72559	0.00023137	18.41158
5400.00	0.13771	7.26169	33.20368	241.11475	14.25625	8.97031	0.00018296	19.77102
5600.00	0.13720	7.28857	35.58759	259.38252	15.25842	9.20727	0.00014575	21.18172
5800.00	0.13674	7.31294	38.05779	278.31447	16.29702	9.43692	0.00011693	22.64352
6000.00	0.13633	7.33515	40.61431	297.91196	17.37205	9.65965	0.00009443	24.15636

T1 = 350.00 ALPHA = 0.30

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.36498	2.73990	1.75[illegible]31	4.603[illegible]	1.1922[illegible]	0.38569	0.09581228	1.18540
1000.00	0.29143	3.43139	2.32[illegible]50	7.63319	1.31/1[illegible]	0.79566	0.47188986	1.45485
1200.00	0.24918	4.00515	2.77[illegible]62	11.11276	1.46799	1.26477	0.30328892	1.77553
1400.00	0.22311	4.48403	3.40[illegible]74	15.25366	1.[illegible]4555	1.76[illegible]08	0.19108029	2.14995
1600.00	0.20459	4.88536	4.10[illegible]33	20.05629	1.[illegible]5012	2.25367	0.12012742	2.56359
1800.00	0.19147	5.22276	4.88[illegible]09	25.51689	2.08182	2.73929	0.07688698	3.02632
2000.00	0.18136	5.50734	5.74[illegible]16	31.64057	2.34069	3.21141	0.04861074	3.53729
2200.00	0.17347	5.74799	6.68[illegible]41	38.41916	2.62677	3.66724	0.03179519	4.09667
2400.00	0.16681	5.95193	7.7[illegible]352	45.85058	2.94008	4.10560	0.02105450	4.70105
2600.00	0.16328	6.12447	8.[illegible]0394	53.92564	3.28055	4.52632	0.01417516	5.35659
2800.00	0.15936	6.27527	9.[illegible]8532	62.68564	3.64834	4.92402	0.00970672	6.05816
3000.00	0.15618	6.40297	11.[illegible]5694	72.07716	4.04332	5.31511	0.00675152	6.81109
3200.00	0.15385	6.51271	12.[illegible]3445	82.11516	4.46551	5.68509	0.00476767	7.61467
3400.00	0.15191	6.60849	14.[illegible]4439	92.81816	4.91497	6.03960	0.00341611	8.46664
3600.00	0.14942	6.69236	15.[illegible]6501	104.16669	5.39169	6.37971	0.00245106	9.36947
3800.00	0.14750	6.76586	17.[illegible]7863	116.17444	5.[illegible]9559	6.70618	0.00182521	10.32220
4000.00	0.14641	6.82997	18.[illegible]9539	128.82279	6.42573	7.01996	0.00135884	11.32640
4200.00	0.14520	6.88693	20.[illegible]1756	142.12948	6.96512	7.32173	0.00102313	12.38058
4400.00	0.14416	6.93691	22.[illegible]3517	156.07485	7.[illegible]7074	7.61235	0.00077648	13.48659
4600.00	0.14323	6.98160	24.[illegible]5048	170.67092	8.18560	7.89240	0.00059825	14.64288
4800.00	0.14242	7.02167	26.[illegible]6349	185.[illegible]5036	8.[illegible]2371	8.16257	0.00046403	15.84995
5000.00	0.14169	7.05743	28.[illegible]7432	201.83073	8.49104	8.42347	0.00036308	17.10829
5200.00	0.14105	7.08963	30.[illegible]8304	218.38274	10.18561	8.67564	0.00028643	18.41750
5400.00	0.14048	7.11868	33.[illegible]8970	235.58359	10.96743	8.91960	0.00022771	19.77773
5600.00	0.13996	7.14493	35.[illegible]9434	253.4332[illegible]	11.[illegible]5647	9.15583	0.00018235	21.18914
5800.00	0.13949	7.16877	37.[illegible]9701	271.93307	12.43275	9.38476	0.00014704	22.65161
6000.00	0.139[illegible]7	7.19051	40.[illegible]9775	291.08421	13.2362[illegible]	9.60680	0.00011933	24.16501

T* = 350.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.37175	2.68999	1.74161	4.69031	1.15269	0.37310	0.70893342	1.18544
1000.00	0.29671	3.36917	2.21492	7.45404	1.25244	0.78115	0.46664450	1.45435
1200.00	0.25476	3.93294	2.76708	10.85553	1.37285	1.24735	0.31662049	1.77564
1400.00	0.22714	4.40266	3.38472	14.90178	1.51459	1.73560	0.20185118	2.14869
1600.00	0.20858	4.79425	4.08563	19.58752	1.67785	2.22697	0.12831514	2.56285
1800.00	0.19577	5.12646	4.86772	24.93377	1.86261	2.71008	0.08219278	3.02523
2000.00	0.18531	5.40226	5.71774	30.89965	2.06934	3.18672	0.05325712	3.53626
2200.00	0.17728	5.64081	6.65559	37.54293	2.29775	3.63429	0.03505576	4.09539
2400.00	0.17126	5.83910	7.67764	44.79661	2.54777	4.07124	0.02343142	4.70147
2600.00	0.16642	6.00899	8.76453	52.69741	2.81954	4.49130	0.01592197	5.35642
2800.00	0.16244	6.15598	9.95143	61.25468	3.11307	4.89169	0.01090704	6.05871
3000.00	0.15921	6.28094	11.21409	70.43469	3.42831	5.27646	0.00771269	6.81223
3200.00	0.15650	6.38985	12.56152	80.26629	3.76531	5.64498	0.00549089	7.61406
3400.00	0.15425	6.48286	13.99492	90.71354	4.12401	5.99148	0.00396363	8.46798
3600.00	0.15233	6.56457	15.50864	101.80654	4.50445	6.33747	0.00289971	9.37093
3800.00	0.15069	6.63631	17.10450	113.54467	4.90663	6.66290	0.00214806	10.32436
4000.00	0.14928	6.69899	18.79506	125.90749	5.33057	6.97568	0.00160992	11.32901
4200.00	0.14805	6.75446	20.56574	138.91092	5.77623	7.27852	0.00121995	12.38403
4400.00	0.14698	6.80370	22.42169	152.55542	6.24361	7.56617	0.00093403	13.48992
4600.00	0.14604	6.84739	24.36389	166.82295	6.73271	7.84535	0.00072206	14.64687
4800.00	0.14521	6.88644	26.38979	181.73174	7.24353	8.11467	0.00056329	15.85464
5000.00	0.14448	6.92146	28.50014	197.27655	7.77627	8.37475	0.00044319	17.11339
5200.00	0.14383	6.95259	30.70010	213.45451	8.33062	8.62614	0.00035150	18.42335
5400.00	0.14324	6.98127	32.98375	230.26644	8.90672	8.86934	0.00028090	19.78431
5600.00	0.14271	7.00699	35.35314	247.71906	9.50455	9.10463	0.00022608	21.19623
5800.00	0.14224	7.03024	37.80927	265.80119	10.12412	9.33305	0.00018318	22.65958
6000.00	0.14182	7.05144	40.34922	284.52000	10.76543	9.55441	0.00014936	24.17391

T1 = 350.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.37844	2.64245	1.73401	4.58266	1.12636	0.36871	0.72164955	1.18524
1000.00	0.30236	3.30736	2.20026	7.27755	1.20937	0.76449	0.50068448	1.45167
1200.00	0.25693	3.86356	2.74561	10.60784	1.30961	1.22828	0.32968628	1.77567
1400.00	0.23124	4.32447	3.30772	14.30366	1.42751	1.71151	0.21270974	2.14738
1600.00	0.21241	4.71003	3.86412	18.15154	1.56334	2.20004	0.13674506	2.56024
1800.00	0.19865	5.03399	4.44140	24.37159	1.71717	2.68125	0.08849337	3.02417
2000.00	0.18843	5.30696	5.09970	30.22159	1.88904	3.14947	0.05794466	3.53517
2200.00	0.18058	5.53771	6.62731	36.70011	2.07897	3.60177	0.03849194	4.09406
2400.00	0.17430	5.73055	7.54019	43.78247	2.28692	4.03731	0.02596003	4.70199
2600.00	0.16955	5.89793	8.73475	51.51649	2.51300	4.45471	0.01779787	5.35629
2800.00	0.16552	6.04164	9.91162	59.85247	2.75715	4.85472	0.01239540	6.05889
3000.00	0.16224	6.16386	11.17431	68.85836	3.01938	5.23819	0.00876287	6.81306
3200.00	0.15949	6.26987	12.51447	78.46417	3.29969	5.60557	0.00628575	7.61564
3400.00	0.15717	6.36247	13.94158	88.70280	3.59807	5.95766	0.00457160	8.46779
3600.00	0.15524	6.44183	15.45574	99.54384	3.91455	6.29564	0.00336763	9.37212
3800.00	0.15357	6.51185	17.04643	111.01641	4.24910	6.62004	0.00251138	10.32624
4000.00	0.15213	6.57328	18.72279	123.10973	4.59173	6.93180	0.00189437	11.33111
4200.00	0.15088	6.62769	20.49404	135.82617	4.97244	7.23166	0.00144442	12.38630
4400.00	0.14980	6.67574	22.34425	149.16456	5.36124	7.52040	0.00111246	13.49281
4600.00	0.14885	6.71825	24.27957	163.11631	5.76811	7.79873	0.00086491	14.65075
4800.00	0.14801	6.75652	26.30015	177.69757	6.19306	8.06719	0.00067847	15.85896
5000.00	0.14726	6.79069	28.40700	192.89645	6.63613	8.32646	0.00053666	17.11845
5200.00	0.14660	6.82141	30.59721	208.71620	7.09722	8.57707	0.00042783	18.42909
5400.00	0.14600	6.84916	32.87485	225.15811	7.57642	8.81951	0.00034360	19.79071
5600.00	0.14547	6.87425	35.23595	242.22066	8.07371	9.05427	0.00027787	21.20351
5800.00	0.14499	6.89705	37.68058	259.90569	8.58908	9.28178	0.00022620	22.66730
6000.00	0.14456	6.91774	40.21472	278.20870	9.12253	9.50245	0.00018527	24.18253

T1 = 350.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	A2/A1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.38537	2.59492	1.72430	4.47443	1.10758	0.34916	0.73356189	1.18599
1000.00	0.30792	3.25187	2.14845	7.11655	1.17870	0.74719	0.51527772	1.45102
1200.00	0.26358	3.79680	2.73119	10.36948	1.26450	1.20559	0.34306613	1.77488
1400.00	0.23564	4.24920	3.35278	14.23814	1.36542	1.68760	0.22363518	2.14238
1600.00	0.21610	4.62746	4.04457	18.72539	1.48167	2.17379	0.14529316	2.56324
1800.00	0.20230	4.94315	4.81961	23.82110	1.61330	2.65317	0.09495067	3.02441
2000.00	0.19185	5.21249	5.66854	29.55241	1.76042	3.11910	0.06279623	3.53419
2200.00	0.18391	5.43744	6.59560	35.88172	1.92295	3.56983	0.04209482	4.09369
2400.00	0.17770	5.62743	7.60867	42.81722	2.10094	4.00355	0.02864619	4.70134
2600.00	0.17268	5.79121	8.69972	50.38196	2.29443	4.41950	0.01980497	5.35603
2800.00	0.16858	5.93185	9.87286	58.56436	2.50339	4.81813	0.01390425	6.05883
3000.00	0.16524	6.05166	11.12859	67.34649	2.72781	5.20028	0.00990542	6.81292
3200.00	0.16246	6.15553	12.46757	76.74443	2.96771	5.56641	0.00715765	7.61578
3400.00	0.16012	6.24517	13.89112	86.74810	3.22309	5.91749	0.00524164	8.46968
3600.00	0.15813	6.32401	15.39871	97.36699	3.49394	6.25418	0.00388785	9.37279
3800.00	0.15644	6.39221	16.98741	108.58736	3.78025	6.57758	0.00291792	10.32769
4000.00	0.15498	6.45234	18.66258	120.41729	4.08204	6.88834	0.00221469	11.33296
4200.00	0.15372	6.50514	20.42230	132.84999	4.39931	7.18730	0.00169862	12.38962
4400.00	0.15262	6.55216	22.26661	145.89586	4.73205	7.47513	0.00131574	13.49658
4600.00	0.15165	6.59399	24.19518	159.54941	5.08027	7.75253	0.00102863	14.65454
4800.00	0.15080	6.63146	26.21154	173.81456	5.44395	8.02015	0.00081120	15.86318
5000.00	0.15004	6.66486	28.30990	188.68217	5.82313	8.27860	0.00064494	17.12336
5200.00	0.14936	6.69501	30.49438	204.16027	6.21778	8.52841	0.00051671	18.43437
5400.00	0.14877	6.72200	32.76398	220.23945	6.62789	8.77011	0.00041696	19.79709
5600.00	0.14822	6.74658	35.11863	236.93204	7.05349	9.00413	0.00033877	21.21040
5800.00	0.14774	6.76883	37.55891	254.22974	7.49456	9.23094	0.00027701	22.67512
6000.00	0.14730	6.78906	40.08428	272.13517	7.95111	9.45092	0.00022789	24.19100

T1 = 350.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.39213	2.55019	1.71474	4.37289	1.19348	0.33763	0.74520847	1.18616
1000.00	0.31270	3.19691	2.17458	6.95836	1.15571	0.73062	0.52919362	1.45112
1200.00	0.26742	3.73245	2.71783	10.14045	1.23071	1.18528	0.35614155	1.77270
1400.00	0.23946	4.17602	3.33364	13.92219	1.31889	1.66462	0.23458074	2.14237
1600.00	0.21968	4.54792	4.12705	18.31473	1.42049	2.14793	0.15397913	2.56186
1800.00	0.20579	4.85936	4.79690	23.30987	1.53553	2.62478	0.10164278	3.02220
2000.00	0.19525	5.12157	5.56643	28.90852	1.66407	3.08911	0.06763010	3.53321
2200.00	0.18716	5.34307	6.37169	35.10870	1.80611	3.53790	0.04588283	4.09160
2400.00	0.18083	5.53009	7.57734	41.90339	1.96165	3.96990	0.03149420	4.69890
2600.00	0.17578	5.68886	8.66677	49.29270	2.13071	4.38463	0.02194540	5.35535
2800.00	0.17184	5.82631	9.83415	57.29686	2.31330	4.78192	0.01552578	6.05858
3000.00	0.16824	5.94382	11.08594	65.89286	2.50941	5.16273	0.01114283	6.81249
3200.00	0.16540	6.04562	12.42274	75.09354	2.71904	5.52759	0.00810913	7.61536
3400.00	0.16313	6.13372	13.83807	84.88577	2.94219	5.87749	0.00597876	8.46931
3600.00	0.16124	6.20961	15.34101	95.25923	3.17885	6.21329	0.00446255	9.37493
3800.00	0.15971	6.27699	16.92644	106.24706	3.42903	6.53554	0.00337037	10.32912
4000.00	0.15753	6.33579	18.59439	117.82251	3.69273	6.84530	0.00257334	11.33493
4200.00	0.15656	6.38741	20.35165	129.98796	3.96994	7.14332	0.00198501	12.39219
4400.00	0.15543	6.43362	22.19948	142.75860	4.26075	7.43020	0.00154611	13.49924
4600.00	0.15445	6.47444	24.11286	156.11736	4.56503	7.70674	0.00121514	14.65797
4800.00	0.15359	6.51097	26.12194	170.07246	4.88264	7.97353	0.00096317	15.86754
5000.00	0.15282	6.54359	28.21282	184.61976	5.21415	8.23118	0.00076955	17.12853
5200.00	0.15214	6.57300	30.39154	199.76369	5.55901	8.48021	0.00061949	18.44036
5400.00	0.15153	6.59956	32.65516	215.50299	5.91735	8.72113	0.00050222	19.80328
5600.00	0.15098	6.62361	35.00174	231.83783	6.28924	8.95442	0.00040987	21.21727
5800.00	0.15048	6.64540	37.43130	248.76590	6.67473	9.18051	0.00033660	22.68259
6000.00	0.15003	6.66523	39.95168	266.28838	7.07364	9.39981	0.00027607	24.19913

T1 = 350.00 ALPHA = 0.90

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.39847	2.50706	1.70522	4.27519	1.08253	0.32641	0.75640829	1.18632
1000.00	0.31846	3.14405	2.16478	6.80610	1.13784	0.71436	0.54281843	1.45110
1200.00	0.27245	3.67033	2.70253	9.91918	1.20443	1.16534	0.36909571	1.77075
1400.00	0.24349	4.10694	3.31705	13.62263	1.28275	1.64149	0.24562681	2.14151
1600.00	0.22365	4.47132	4.00763	17.91945	1.37294	2.12243	0.16279105	2.56043
1800.00	0.20934	4.77686	4.77473	22.80831	1.47508	2.59710	0.10847210	3.02124
2000.00	0.19874	5.03173	5.61921	28.27483	1.58918	3.05994	0.07301236	3.53399
2200.00	0.19048	5.24979	6.54265	34.34758	1.71524	3.50680	0.04982109	4.09155
2400.00	0.18406	5.43287	7.54579	40.99582	1.85337	3.93723	0.03447725	4.69970
2600.00	0.17886	5.59096	8.62993	48.24941	2.00349	4.35003	0.02422148	5.35392
2800.00	0.17456	5.72482	9.79552	56.07759	2.16559	4.74607	0.01726199	6.05809
3000.00	0.17104	5.83992	11.04334	64.49216	2.33969	5.12559	0.01247729	6.81206
3200.00	0.16808	5.93866	12.37464	73.48674	2.52579	5.48938	0.00914098	7.61661
3400.00	0.16548	6.02486	13.78749	83.06796	2.72389	5.83814	0.00678342	8.47113
3600.00	0.16323	6.10006	15.28463	93.23715	2.93401	6.17269	0.00509542	9.37572
3800.00	0.16129	6.16554	16.86545	103.98842	3.15613	6.49396	0.00367115	10.33127
4000.00	0.15958	6.22337	18.53123	115.32044	3.39025	6.80270	0.00297280	11.33709
4200.00	0.15939	6.27405	20.27905	127.23184	3.63639	7.09973	0.00230586	12.39448
4400.00	0.15825	6.31894	22.11911	139.72563	3.89452	7.38575	0.00180548	13.50286
4600.00	0.15726	6.35904	24.02954	152.80484	4.16465	7.66139	0.00142629	14.66184
4800.00	0.15638	6.39479	25.93141	166.46535	4.44680	7.92734	0.00113612	15.87199
5000.00	0.15560	6.42677	28.11779	180.70662	4.74095	8.18416	0.00091207	17.13339
5200.00	0.15490	6.45564	30.28974	195.53337	5.04710	8.43240	0.00073760	18.44561
5400.00	0.15428	6.48164	32.54449	210.94100	5.36527	8.67256	0.00060064	19.80911
5600.00	0.15373	6.50505	34.88468	226.92662	5.69543	8.90513	0.00049229	21.22422
5800.00	0.15322	6.52635	37.30971	243.49636	6.03760	9.13052	0.00040598	22.69031
6000.00	0.15277	6.54572	39.81949	260.64717	6.39178	9.34913	0.00033675	24.20773

T1 = 350.00 ALPHA = 0.90

UN1	U=2/C=1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	TS2-S1I/R	PT2/PT1	(PT2-P2)/P1
800.00	0.40560	2.46551	1.69575	4.18092	1.07377	0.31549	0.76717460	1.18648
1000.00	0.32350	3.09313	2.13506	6.65980	1.12355	0.69841	0.55614534	1.45054
1200.00	0.27697	3.61048	2.68128	9.70601	1.18343	1.14574	0.36192802	1.76893
1400.00	0.24754	4.03982	3.30129	13.33256	1.25384	1.61883	0.25667095	2.14093
1600.00	0.22740	4.39759	3.98125	17.53849	1.33493	2.09728	0.17171799	2.55890
1800.00	0.21269	4.69736	4.75201	22.32473	1.42675	2.56960	0.11545692	3.02030
2000.00	0.20204	4.94956	5.59436	27.68949	1.52934	3.03028	0.07841773	3.53130
2200.00	0.19371	5.16246	6.51066	33.63167	1.64270	3.47559	0.05394429	4.08929
2400.00	0.18717	5.34264	7.51468	40.14932	1.76684	3.90426	0.03763102	4.69695
2600.00	0.18197	5.49531	8.59502	47.23231	1.90177	4.31604	0.02662630	5.35345
2800.00	0.17771	5.62726	9.75695	54.90456	2.04749	4.71057	0.01911476	6.05725
3000.00	0.17423	5.73963	11.00077	63.14032	2.20400	5.08886	0.01391071	6.81175
3200.00	0.17134	5.83622	12.32702	71.94316	2.37129	5.45149	0.01025758	7.61722
3400.00	0.16890	5.92080	13.73626	81.32954	2.54937	5.79903	0.00766029	8.47158
3600.00	0.16683	5.99419	15.22867	91.28373	2.73827	6.13253	0.00578855	9.37687
3800.00	0.16506	6.05830	16.80453	101.80681	2.93799	6.45276	0.00442313	10.33297
4000.00	0.16354	6.11457	18.46409	112.90551	3.14842	6.76051	0.00341550	11.33937
4200.00	0.16221	6.16472	20.20749	124.57340	3.36964	7.05656	0.00266344	12.39676
4400.00	0.16107	6.20863	22.03483	136.80595	3.60173	7.34166	0.00209615	13.50578
4600.00	0.16006	6.24783	23.94628	149.61230	3.84457	7.61644	0.00166408	14.66538
4800.00	0.15917	6.28277	25.94190	162.98710	4.09821	7.88155	0.00133183	15.87629
5000.00	0.15837	6.31413	28.02180	176.93334	4.36265	8.13755	0.00107410	17.13813
5200.00	0.15767	6.34242	30.18605	191.45274	4.63785	8.38499	0.00087251	18.45087
5400.00	0.15704	6.36773	32.43464	206.53493	4.92387	8.62442	0.00071353	19.81551
5600.00	0.15648	6.39072	34.76767	222.19026	5.22067	8.85625	0.00058726	21.23105
5800.00	0.15597	6.41159	37.18517	238.41611	5.52827	9.08093	0.00048625	22.69777
6000.00	0.15551	6.43057	39.68717	255.21111	5.84666	9.29885	0.00040490	24.21583

T1 = 350.00 ALPHA = 1.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.41280	2.42539	1.68136	4.09066	1.06661	0.30487	0.77752044	1.18663
1000.00	0.32691	3.04401	2.14139	6.51643	1.11185	0.68277	0.56916914	1.44894
1200.00	0.26145	3.55302	2.67412	9.50120	1.16625	1.12641	0.39464784	1.77061
1400.00	0.21507	3.97507	3.28158	13.05240	1.23020	1.59651	0.26772372	2.14032
1600.00	0.23114	4.32646	3.96693	17.17146	1.30384	2.07246	0.18074401	2.55734
1800.00	0.21642	4.62073	4.73154	21.85856	1.38723	2.54284	0.12258888	3.01931
2000.00	0.20544	4.86750	5.56934	27.10870	1.48038	3.00155	0.08394875	3.53086
2200.00	0.19745	5.07487	6.48644	32.91743	1.58331	3.44540	0.05819734	4.09001
2400.00	0.19035	5.25353	7.48424	39.31341	1.69606	3.87213	0.04091955	4.69656
2600.00	0.18511	5.40219	8.56108	46.24314	1.81857	4.28259	0.02916027	5.35364
2800.00	0.18076	5.53224	9.71834	53.76417	1.95091	4.67566	0.02108166	6.05742
3000.00	0.17742	5.64273	10.95522	61.83428	2.09304	5.05254	0.01544475	6.81163
3200.00	0.17429	5.73740	12.28027	70.45615	2.24495	5.41395	0.01146105	7.61745
3400.00	0.17100	5.82067	13.68511	79.65644	2.40669	5.76027	0.00861147	8.47153
3600.00	0.16972	5.89221	15.17277	89.40121	2.57820	6.09274	0.00654479	9.37768
3800.00	0.16772	5.95530	16.74472	99.71395	2.75953	6.41189	0.00502907	10.33371
4000.00	0.16638	6.01017	18.39800	110.57519	2.95065	6.71872	0.00390388	11.34161
4200.00	0.16514	6.05914	20.13596	122.00658	3.15157	7.01379	0.00306000	12.39917
4400.00	0.16367	6.10228	21.95761	133.99151	3.36230	7.29796	0.00242021	13.50831
4600.00	0.16265	6.14049	23.86805	146.53076	3.58281	7.57169	0.00193044	14.66893
4800.00	0.16195	6.17486	25.85748	159.63578	3.81314	7.83612	0.00155214	15.87997
5000.00	0.16115	6.20546	27.92587	173.29299	4.05329	8.09134	0.00125732	17.14271
5200.00	0.16043	6.23309	30.08335	187.51242	4.30319	8.33801	0.00102570	18.45631
5400.00	0.15980	6.25794	32.32494	202.28746	4.56291	8.57667	0.00084230	19.82135
5600.00	0.15922	6.28049	34.65572	217.62343	4.83244	8.80776	0.00069602	21.23741
5800.00	0.15871	6.30088	37.07068	233.51496	5.11176	9.03173	0.00057854	22.70499
6000.00	0.15824	6.31946	39.55489	249.96552	5.40089	9.24897	0.00048357	24.22378

T1 = 400.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.36659	2.71306	1.66[illegible]	4.52[illegible]	1.[illegible]	0.33348	0.71642803	1.11375
1000.00	0.29[illegible]	3.44732	2.[illegible]	7.16[illegible]	2.13789	0.71592	0.46674262	1.54803
1200.00	0.24[illegible]	4.07087	2.56976	10.46117	2.68115	1.16102	0.31316615	1.62773
1400.00	0.21753	4.59714	3.12[illegible]	14.35717	3.31995	1.63326	0.19529179	1.94688
1600.00	0.19[illegible]	5.04120	3.74[illegible]	18.87329	4.05549	2.11252	0.12093291	2.31246
1800.00	0.18[illegible]	5.41607	4.43275	24.00811	4.86827	2.58745	0.07521146	2.71363
2000.00	0.17[illegible]	5.73103	5.19[illegible]	29.74955	5.81844	3.05195	0.04726063	3.15939
2200.00	0.16666	6.00038	6.[illegible]	36.12[illegible]	6.84634	3.50184	0.03014195	3.64524
2400.00	0.16059	6.22706	6.91[illegible]	43.09095	7.97189	3.93614	0.01952349	4.17551
2600.00	0.15559	6.42311	7.[illegible]65	50.69[illegible]	9.19531	4.35346	0.01286221	4.74603
2800.00	0.15174	6.59031	8.[illegible]39	58.90[illegible]	10.51644	4.75433	0.00861428	5.35977
3000.00	0.14[illegible]8	6.73497	10.[illegible]65	67.73931	11.93543	5.13[illegible]91	0.00586407	6.01684
3200.00	0.14579	6.85919	11.[illegible]37	77.17526	13.45215	5.50[illegible]02	0.00405413	6.71748
3400.00	0.14354	6.96677	12.51[illegible]67	87.21962	15.06667	5.86229	0.00284473	7.46260
3600.00	0.14[illegible]3	7.06088	13.86[illegible]18	97.87929	16.77903	6.20243	0.00202451	8.25097
3800.00	0.13[illegible]9	7.14333	15.28[illegible]01	109.15021	18.58921	6.52925	0.00146009	9.08375
4000.00	0.13858	7.21589	16.77[illegible]07	121.03253	20.49723	6.84355	0.00106631	9.96063
4200.00	0.13736	7.27988	18.[illegible]4149	133.52385	22.50305	7.14607	0.00078796	10.88197
4400.00	0.13630	7.33660	19.[illegible]8541	146.62494	24.60672	7.43751	0.00058875	11.84777
4600.00	0.13537	7.38709	21.70[illegible]95	160.33650	26.80822	7.71853	0.00044451	12.85801
4800.00	0.13455	7.43225	23.50[illegible]18	174.65929	29.10755	7.98976	0.00033892	13.91266
5000.00	0.13382	7.47274	25.37[illegible]19	189.59239	31.50472	8.25177	0.00026080	15.01184
5200.00	0.13317	7.50914	27.31[illegible]02	205.13491	33.99973	8.50511	0.00020243	16.15565
5400.00	0.13259	7.54194	29.34[illegible]73	221.28[illegible]	36.59256	8.75029	0.00015842	17.34415
5600.00	0.13207	7.57167	31.45[illegible]37	238.04[illegible]	39.28324	8.98775	0.00012493	18.57719
5800.00	0.13160	7.59864	33.61[illegible]97	255.42049	42.07175	9.21795	0.00009924	19.85490
6000.00	0.13118	7.62326	35.86[illegible]57	273.40[illegible]	44.95812	9.44126	0.00007938	21.17707

T1 = 400.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.37651	2.65736	1.65720	4.40381	1.35839	0.32161	0.72982669	1.11604
1000.00	0.29592	3.37935	2.07821	7.00611	1.59524	0.69524	0.50470628	1.34822
1200.00	0.25059	3.99065	2.55707	10.20437	1.85041	1.13914	0.32773563	1.62765
1400.00	0.22190	4.50653	3.10528	14.00754	2.21567	1.60795	0.20708090	1.94585
1600.00	0.20245	4.93954	3.72472	18.40830	2.60160	2.08470	0.12963134	2.30873
1800.00	0.18859	5.30814	4.41541	23.42696	3.03863	2.55692	0.08176015	2.71418
2000.00	0.17798	5.61860	5.16821	29.04675	3.52673	3.01895	0.05200477	3.15848
2200.00	0.17013	5.87781	5.99514	35.28629	4.06604	3.46757	0.03351551	3.64676
2400.00	0.16398	6.10187	6.89259	42.05763	4.65669	3.89979	0.02194931	4.17595
2600.00	0.15888	6.29395	7.86226	49.48467	5.29864	4.31547	0.01460941	4.74637
2800.00	0.15456	6.45743	8.90475	57.50178	5.99185	4.71467	0.00988025	5.36016
3000.00	0.15156	6.59799	10.02169	66.11640	6.73635	5.09419	0.00678802	6.01805
3200.00	0.14882	6.71945	11.21154	75.32867	7.53222	5.46600	0.00473491	6.71909
3400.00	0.14652	6.82510	12.47464	85.14099	8.37941	5.81900	0.00335107	7.46400
3600.00	0.14457	6.91719	13.81138	95.54651	9.27789	6.15799	0.00240443	8.25287
3800.00	0.14291	6.99766	15.22264	106.55249	10.22772	6.48373	0.00174772	9.08610
4000.00	0.14148	7.06837	16.71537	118.15143	11.22886	6.79702	0.00128598	9.96363
4200.00	0.14023	7.13095	18.27902	130.34674	12.28134	7.09854	0.00095718	10.88530
4400.00	0.13915	7.18637	19.91794	143.13776	13.38515	7.38904	0.00072019	11.85160
4600.00	0.13820	7.23592	21.63228	156.52934	14.54031	7.66913	0.00054742	12.86194
4800.00	0.13736	7.27991	23.42205	170.51032	15.74679	7.93951	0.00042008	13.91732
5000.00	0.13662	7.31949	25.28738	185.09067	17.00461	8.20069	0.00032528	15.01701
5200.00	0.13596	7.35494	27.22730	200.26236	18.31375	8.45324	0.00025400	16.16161
5400.00	0.13537	7.38702	29.24488	216.03242	19.67424	8.69764	0.00019994	17.35063
5600.00	0.13484	7.41609	31.33717	232.39930	21.08605	8.93435	0.00015857	18.58416
5800.00	0.13436	7.44243	33.50518	249.36011	22.54922	9.16383	0.00012666	19.86251
6000.00	0.13393	7.46643	35.74896	266.91718	24.06372	9.38645	0.00010185	21.18548

T1 = 400.00 ALPHA = 0.20

UN1	U02/U01	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.38371	2.60611	1.64144	4.29601	1.24139	0.30955	0.74305656	1.11719
1000.00	0.30175	3.31402	2.10257	6.03541	1.40203	0.68097	0.52030637	1.34846
1200.00	0.25552	3.91366	2.54441	9.95796	1.59535	1.11768	0.34221352	1.62757
1400.00	0.22645	4.41596	3.09834	13.66007	1.82245	1.56375	0.21482731	1.95091
1600.00	0.20637	4.84566	3.70984	17.97644	2.08405	2.05869	0.13961001	2.30800
1800.00	0.19212	5.20510	4.39411	22.87179	2.38015	2.52675	0.08854635	2.71445
2000.00	0.18192	5.50586	5.14727	28.34011	2.71083	2.98715	0.05693058	3.16064
2200.00	0.17343	5.76610	5.97764	34.42846	3.07634	3.43285	0.03712227	3.64433
2400.00	0.16717	5.98207	6.86627	41.06856	3.47644	3.86385	0.02455007	4.17618
2600.00	0.16256	6.16993	7.83189	48.32229	3.91134	4.27795	0.01650104	4.74681
2800.00	0.15796	6.33064	8.87118	56.16015	4.38109	4.67576	0.01126556	5.35994
3000.00	0.15453	6.46715	9.98360	64.56541	4.88551	5.05765	0.00780619	6.01671
3200.00	0.15163	6.58641	11.16980	73.56867	5.42473	5.42431	0.00549359	6.71963
3400.00	0.14949	6.68944	12.43103	83.14999	5.99871	5.77613	0.00391979	7.46510
3600.00	0.14751	6.77913	13.76460	93.31196	6.60745	6.11401	0.00283451	8.25480
3800.00	0.14581	6.85612	15.17379	104.06374	7.25099	6.43864	0.00207595	9.08797
4000.00	0.14456	6.92726	16.65773	115.39230	7.92930	6.75089	0.00153855	9.96593
4200.00	0.14310	6.98606	18.21657	127.29851	8.64237	7.05148	0.00115309	10.88859
4400.00	0.14200	7.04230	19.85150	139.79330	9.39023	7.34103	0.00087341	11.85526
4600.00	0.14103	7.09053	21.55959	152.86895	10.17287	7.62025	0.00066815	12.86646
4800.00	0.14018	7.13373	23.34494	166.52935	10.99030	7.88973	0.00051593	13.92199
5000.00	0.13942	7.17236	25.20459	180.76969	11.84251	8.15008	0.00040189	15.02225
5200.00	0.13875	7.20701	27.13960	195.58816	12.72949	8.40183	0.00031566	16.16746
5400.00	0.13815	7.23845	29.14907	210.99146	13.65126	8.64545	0.00024987	17.35684
5600.00	0.13761	7.26679	31.23498	226.97816	14.60781	8.88143	0.00019924	18.59119
5800.00	0.13713	7.29246	33.39840	243.54295	15.59913	9.11019	0.00015998	19.87039
6000.00	0.13669	7.31592	35.63936	260.69063	16.62524	9.33211	0.00012930	21.19403

T1 = 400.00 ALPHA = 0.30

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S11/R	PT2/PT1	(PT2-P2)/P1
800.00	0.39111	2.55685	1.63370	4.19246	1.18137	0.29784	0.75572965	1.11829
1000.00	0.30758	3.25114	2.05195	6.67116	1.30291	0.66413	0.53552486	1.34877
1200.00	0.26041	3.84004	2.53180	9.72222	1.44911	1.09655	0.35660392	1.62733
1400.00	0.23052	4.33609	3.07179	13.34901	1.62087	1.55859	0.23093901	1.94883
1600.00	0.21036	4.75364	3.69290	17.55546	1.81859	2.02937	0.14833356	2.30521
1800.00	0.19572	5.10402	4.37473	22.32675	2.04233	2.49737	0.09552507	2.71597
2000.00	0.18517	5.40346	5.12563	27.69615	2.29243	2.95484	0.06212906	3.15910
2200.00	0.17698	5.65345	5.94631	33.61716	2.56866	3.39941	0.04090143	3.64571
2400.00	0.17043	5.86768	6.83801	40.12329	2.87113	3.82425	0.02732821	4.17594
2600.00	0.16527	6.05064	7.80153	47.20426	3.19984	4.24089	0.01853929	4.74695
2800.00	0.16110	6.20729	8.83753	54.85767	3.55492	4.63733	0.01277014	5.36123
3000.00	0.15768	6.34208	9.94756	63.08192	3.93624	5.01787	0.00892875	6.01883
3200.00	0.15486	6.45762	11.12401	71.86661	4.34361	5.38321	0.00633273	6.72134
3400.00	0.15246	6.55869	12.36939	81.23431	4.77764	5.73375	0.00455444	7.46658
3600.00	0.15045	6.64656	13.71564	91.16314	5.23783	6.07050	0.00331829	8.25684
3800.00	0.14873	6.72359	15.12468	101.66561	5.72427	6.39407	0.00244778	9.09058
4000.00	0.14725	6.79116	16.60906	112.73406	6.23699	6.70529	0.00182673	9.96903
4200.00	0.14596	6.85110	18.15418	124.37610	6.77602	7.00484	0.00137831	10.89151
4400.00	0.14484	6.90395	19.78409	136.58151	7.34131	7.29347	0.00105069	11.85887
4600.00	0.14386	6.95114	21.48695	149.35886	7.93291	7.57178	0.00080875	12.87052
4800.00	0.14299	6.99326	23.26583	162.70402	8.55079	7.84042	0.00062822	13.92682
5000.00	0.14223	7.03100	25.11981	176.61679	9.19497	8.09993	0.00049219	15.02761
5200.00	0.14154	7.06502	27.04793	191.10122	9.86543	8.35187	0.00038673	16.17315
5400.00	0.14093	7.09563	29.05325	206.15107	10.56219	8.59373	0.00030936	17.36344
5600.00	0.14038	7.12338	31.13281	221.77077	11.28523	8.82896	0.00024797	18.59831
5800.00	0.13989	7.14854	33.28765	237.95795	12.03457	9.05499	0.00020012	19.87796
6000.00	0.13944	7.17145	35.51779	254.71416	12.81020	9.27822	0.00016253	21.20229

T1 = 400.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.39875	2.50786	1.63[illegible]	4.08964	1.14481	0.28694	0.76754490	1.11962
1000.00	0.31342	3.19064	2.[illegible]	6.51320	1.24261	0.64769	0.55036762	1.34910
1200.00	0.26530	3.76936	2.51923	9.49504	1.36015	1.07561	0.37087469	1.62705
1400.00	0.23476	4.25606	3.[illegible]	13.04196	1.49823	1.53449	0.24297515	1.94839
1600.00	0.21434	4.66556	3.67[illegible]	17.15086	1.65709	2.00249	0.15762163	2.30845
1800.00	0.19957	5.01078	4.33559	21.82496	1.83696	2.46773	0.10277196	2.71374
2000.00	0.18850	5.30224	5.10[illegible]	27.06205	2.03787	2.92342	0.06751625	3.15907
2200.00	0.18050	5.54645	5.92[illegible]	32.86522	2.25981	3.36621	0.04488563	3.64625
2400.00	0.17366	5.75831	6.81[illegible]	39.21882	2.50292	3.79298	0.03028438	4.17458
2600.00	0.16867	5.93578	7.77[illegible]	46.12810	2.76707	4.20431	0.02072600	4.74718
2800.00	0.16423	6.08869	8.80[illegible]	53.60866	3.05235	4.59031	0.01439951	5.36240
3000.00	0.16076	6.22048	9.[illegible]	61.64180	3.35875	4.97853	0.01015080	6.02045
3200.00	0.15756	6.33481	11.[illegible]	70.24249	3.68625	5.34241	0.00725768	6.72198
3400.00	0.15545	6.43304	12.34[illegible]	79.38840	4.03491	5.69187	0.00525654	7.46856
3600.00	0.15339	6.51913	13.[illegible]	89.09782	4.40467	6.02743	0.00385924	8.25870
3800.00	0.15184	6.59451	15.[illegible]	99.36586	4.79555	6.34992	0.00286662	9.09290
4000.00	0.15013	6.66075	16.54[illegible]	110.18516	5.20754	6.66010	0.00215363	9.97159
4200.00	0.14883	6.71924	18.09[illegible]	121.56364	5.64064	6.95868	0.00163536	10.89473
4400.00	0.14769	6.77103	19.71[illegible]	133.49555	6.09491	7.24036	0.00125436	11.86241
4600.00	0.14669	6.81721	21.41[illegible]	145.98610	6.57032	7.52376	0.00097127	12.87449
4800.00	0.14581	6.85841	23.18[illegible]	159.03129	7.06682	7.79153	0.00075879	13.93129
5000.00	0.14503	6.89530	25.03[illegible]	172.63120	7.58445	8.05023	0.00059777	15.03282
5200.00	0.14433	6.92854	26.95729	186.78850	8.12320	8.30036	0.00047465	16.17345
5400.00	0.14371	6.95850	28.95747	201.50054	8.68305	8.54245	0.00037970	17.36968
5600.00	0.14315	6.98562	31.03[illegible]	216.76839	9.26409	8.77694	0.00030588	18.60520
5800.00	0.14265	7.01021	33.17[illegible]	232.59139	9.86622	9.00425	0.00024804	19.88550
6000.00	0.14219	7.03261	35.40225	248.97016	10.48943	9.22476	0.00020241	21.21054

T1 = 400.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.40622	2.46170	1.62210	3.99310	1.12022	0.27811	0.77903351	1.12007
1000.00	0.31919	3.13294	2.03163	6.36248	1.20205	0.63149	0.56490509	1.34919
1200.00	0.27017	3.70143	2.50479	9.27830	1.30031	1.05544	0.38500484	1.62676
1400.00	0.23929	4.17910	3.04946	12.74599	1.41571	1.51078	0.25505129	1.94795
1600.00	0.21630	4.58085	3.65913	16.76194	1.54845	1.97598	0.16746181	2.30862
1800.00	0.20328	4.91929	4.33537	21.33184	1.69879	2.43882	0.11018639	2.71271
2000.00	0.19212	5.20496	5.08118	26.45256	1.86667	2.89240	0.07311077	3.15818
2200.00	0.18350	5.44673	5.89760	32.12266	2.05215	3.33208	0.04908826	3.64452
2400.00	0.17700	5.64965	6.78546	38.32555	2.25524	3.75867	0.03339983	4.17582
2600.00	0.17187	5.82522	7.74566	45.09229	2.47599	4.16817	0.02306274	4.74756
2800.00	0.16755	5.97532	8.77934	52.40563	2.71443	4.56168	0.01615675	5.36299
3000.00	0.16382	6.10432	9.87743	60.26443	2.97041	4.93951	0.01148037	6.02127
3200.00	0.16058	6.21575	11.04758	68.66896	3.24404	5.30218	0.00827015	6.72375
3400.00	0.15841	6.31284	12.29414	77.62383	3.53542	5.65030	0.00603652	7.46948
3600.00	0.15633	6.39670	13.61140	87.11270	3.84435	5.98475	0.00446084	8.26042
3800.00	0.15455	6.47047	15.01458	97.15140	4.17101	6.30619	0.00333565	9.09507
4000.00	0.15311	6.53553	16.48469	107.73745	4.51528	6.61530	0.00252216	9.97379
4200.00	0.15159	6.59260	18.02542	118.86081	4.87720	6.91292	0.00192699	10.89759
4400.00	0.15053	6.64337	19.64435	130.53124	5.25678	7.19965	0.00148684	11.86560
4600.00	0.14951	6.68837	21.34176	142.74165	5.65400	7.47619	0.00115785	12.87852
4800.00	0.14861	6.72883	23.10976	155.50165	6.06888	7.74307	0.00090956	13.93549
5000.00	0.14782	6.76490	24.95237	168.80022	6.50141	8.00094	0.00072036	15.03760
5200.00	0.14712	6.79728	26.86566	182.64061	6.95159	8.25030	0.00057493	16.18452
5400.00	0.14649	6.82664	28.86173	197.02850	7.41942	8.49160	0.00046221	17.37580
5600.00	0.14592	6.85314	30.92857	211.95794	7.90491	8.72535	0.00037414	18.61198
5800.00	0.14541	6.87721	33.07023	227.43088	8.40805	8.95194	0.00030461	19.89293
6000.00	0.14495	6.89911	35.28674	243.44784	8.92885	9.17178	0.00024966	21.21863

T1 = 400.00 ALPHA = 0.50

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.41389	2.41729	1.61339	3.90086	1.10255	0.26560	0.79002561	1.12059
1000.00	0.32443	3.07755	2.02736	6.21775	1.17291	0.61561	0.57909457	1.34920
1200.00	0.27513	3.63596	2.49419	9.06885	1.25731	1.03546	0.39897529	1.62649
1400.00	0.24381	4.10497	3.03484	12.45701	1.35544	1.48747	0.26714517	1.94752
1600.00	0.22246	4.49933	3.64250	16.38701	1.47043	1.94986	0.17723425	2.30878
1800.00	0.20699	4.83126	4.31719	20.85720	1.59942	2.41032	0.11778545	2.71180
2000.00	0.19564	5.11137	5.06059	25.86625	1.74365	2.86178	0.07790445	3.15738
2200.00	0.18711	5.34729	5.87718	31.40562	1.90296	3.30056	0.05345654	3.64537
2400.00	0.18020	5.54953	6.75438	37.49475	2.07732	3.72409	0.03670933	4.17383
2600.00	0.17456	5.71688	7.71157	44.09548	2.26682	4.13243	0.02555097	4.74793
2800.00	0.17047	5.86616	8.73861	51.25172	2.47152	4.52444	0.01804393	5.36329
3000.00	0.16686	5.99292	9.83546	58.94317	2.69135	4.90065	0.01292016	6.02166
3200.00	0.16387	6.10226	11.00196	67.16751	2.92634	5.26221	0.00937571	6.72419
3400.00	0.16138	6.19646	12.23758	75.91641	3.17647	5.60926	0.00669055	7.47132
3600.00	0.15926	6.27922	13.56278	85.20747	3.44177	5.94250	0.00512656	8.26163
3800.00	0.15745	6.35118	14.96152	95.02304	3.72221	6.26287	0.00365797	9.09711
4000.00	0.15589	6.41483	16.42734	105.37447	4.01781	6.57096	0.00293512	9.97627
4200.00	0.15455	6.47053	17.96707	116.25649	4.32855	6.86763	0.00225576	10.90078
4400.00	0.15337	6.52023	19.58111	127.67246	4.65447	7.15342	0.00175047	11.86929
4600.00	0.15234	6.56436	21.26919	139.61873	4.99553	7.42904	0.00137067	12.88253
4800.00	0.15142	6.60397	23.03174	152.10106	5.35175	7.69506	0.00108246	13.93998
5000.00	0.15062	6.63922	24.86867	165.10850	5.72315	7.95211	0.00086168	15.04272
5200.00	0.14990	6.67106	26.78009	178.65156	6.10967	8.20064	0.00069114	16.18985
5400.00	0.14926	6.69969	28.76600	192.72339	6.51136	8.44119	0.00055829	17.38196
5600.00	0.14868	6.72572	30.82650	207.33030	6.92821	8.67416	0.00045401	18.61851
5800.00	0.14816	6.74924	32.96157	222.46547	7.36022	8.90006	0.00037155	19.90014
6000.00	0.14770	6.77062	35.17126	238.13129	7.80738	9.11921	0.00030589	21.22665

T1 = 400.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.42114	2.37453	1.60470	3.81040	1.08922	0.25541	0.80053852	1.12116
1000.00	0.33085	3.02430	2.00992	6.07841	1.15093	0.60006	0.59293004	1.34915
1200.00	0.27959	3.57285	2.48172	8.86682	1.22491	1.01587	0.41276902	1.62626
1400.00	0.24791	4.03367	3.02026	12.18270	1.31173	1.46452	0.27924806	1.94704
1600.00	0.22630	4.41899	3.62539	16.02059	1.41161	1.92450	0.18706046	2.30998
1800.00	0.21068	4.74656	4.29405	20.40095	1.52469	2.38219	0.12555837	2.71094
2000.00	0.19915	5.02128	5.03765	25.30140	1.65095	2.83156	0.08488952	3.15665
2200.00	0.19034	5.25365	5.84692	30.72810	1.79148	3.26627	0.05802975	3.64464
2400.00	0.18352	5.44894	6.72906	36.66629	1.94622	3.69061	0.04016816	4.17519
2600.00	0.17814	5.61676	7.68632	43.13855	2.11925	4.09706	0.02819217	4.74807
2800.00	0.17388	5.76118	8.70331	50.14170	2.28855	4.48760	0.02006260	5.36352
3000.00	0.16990	5.88579	9.79254	57.67211	2.48113	4.86257	0.01447246	6.02190
3200.00	0.16658	5.99226	10.96430	65.71369	2.68696	5.22276	0.01057516	6.72540
3400.00	0.16434	6.08504	12.20968	74.28051	2.90607	5.56853	0.00782502	7.47226
3600.00	0.16219	6.16559	13.52969	83.36544	3.13845	5.90072	0.00585900	8.26355
3800.00	0.16035	6.23644	14.92563	92.97676	3.38411	6.21995	0.00443672	9.09888
4000.00	0.15877	6.29851	16.39880	103.10535	3.64304	6.52705	0.00339538	9.97888
4200.00	0.15740	6.35323	17.94978	113.75319	3.91524	6.82271	0.00262448	10.90345
4400.00	0.15621	6.40183	19.57971	124.92341	4.20073	7.10757	0.00204778	11.87250
4600.00	0.15516	6.44503	21.29067	136.61306	4.49944	7.38230	0.00161197	12.88623
4800.00	0.15423	6.48378	22.95877	148.82716	4.81152	7.64746	0.00127953	13.94428
5000.00	0.15342	6.51822	24.78500	161.55417	5.13683	7.90369	0.00102358	15.04770
5200.00	0.15269	6.54936	26.69051	174.80587	5.47541	8.15143	0.00082490	16.19547
5400.00	0.15213	6.57743	28.67630	188.57765	5.82723	8.39121	0.00066942	17.38805
5600.00	0.15145	6.60296	30.72445	202.87216	6.19242	8.62345	0.00054682	18.62506
5800.00	0.15092	6.62593	32.85492	217.68120	6.57084	8.84861	0.00044944	19.90747
6000.00	0.15045	6.64693	35.05581	233.01351	6.96254	9.06705	0.00037156	21.23441

T1 = 400.00 ALPHA = 0.80

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	R2/R1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.42657	2.33332	1.59[illegible]04	3.72[illegible]7	1.[illegible]7881	0.24553	0.[illegible]1[illegible]58895	1.12179
1000.00	0.33646	2.97302	1.99[illegible]53	5.94464	1.1337[illegible]	0.58464	0.[illegible]0[illegible]40689	1.34908
1200.00	0.28473	3.51206	2.46[illegible]29	8.67[illegible]5[illegible]	1.19961	0.99663	0.42638782	1.62599
1400.00	0.25220	3.96511	3.00[illegible]73	11.91[illegible]4	1.27686	1.44190	0.29134749	1.94646
1600.00	0.23014	4.34523	3.60[illegible]74	15.68[illegible]5[illegible]	1.[illegible]6572	1.89[illegible]76	0.19711248	2.30856
1800.00	0.21443	4.66345	4.27[illegible]64	19.95[illegible]1[illegible]	1.46624	2.[illegible]5474	0.13345653	2.71112
2000.00	0.20266	4.93449	5.01723	24.75[illegible]7	1.57862	2.[illegible]0172	0.09105709	3.15598
2200.00	0.19371	5.16240	5.82[illegible]03	30.069[illegible]9	1.[illegible]0272	3.23[illegible]55	0.06277640	3.64468
2400.00	0.18675	5.35466	6.70[illegible]96	35.88[illegible]7[illegible]	1.[illegible]3860	3.65706	0.04361281	4.17435
2600.00	0.18119	5.51895	7.[illegible]5[illegible]15	42.22[illegible]1	1.98627	4.0[illegible]198	0.03098606	4.74767
2800.00	0.17667	5.66013	8.[illegible]6[illegible]65	49.07[illegible]9	2.14575	4.45113	0.02221490	5.36363
3000.00	0.17294	5.78249	9.76[illegible]64	56.44661	2.31705	4.82471	0.01613917	6.02219
3200.00	0.16989	5.88609	1[illegible].9[illegible]65	64.30932	2.50013	5.18376	0.01187176	6.72665
3400.00	0.16731	5.97694	12.16[illegible]53	72.69[illegible]8	2.[illegible]9502	5.52[illegible]33	0.00884145	7.47398
3600.00	0.16512	6.05613	13.47[illegible]4[illegible]	[illegible]1.591[illegible]3	2.90172	5.[illegible]5934	0.00666152	8.26536
3800.00	0.16325	6.12560	14.[illegible]5[illegible]7	90.99990	3.12023	6.17748	0.00507458	9.10094
4000.00	0.16164	6.18652	16.31[illegible]31	100.91642	3.35055	6.4[illegible]354	0.00390585	9.98113
4200.00	0.16025	6.24025	17.[illegible]4[illegible]53	111.341[illegible]1	3.59267	6.77[illegible]20	0.00[illegible]03575	10.90597
4400.00	0.15904	6.28756	19.44[illegible]42	122.27[illegible]6	3.[illegible]4661	7.06217	0.0023[illegible]115	11.87596
4600.00	0.15798	6.33006	21.12418	133.71[illegible]2	4.11234	7.33597	0.00168401	12.88980
4800.00	0.15704	6.36787	22.87[illegible]0	145.67017	4.36989	7.60029	0.00150281	13.94866
5000.00	0.15621	6.40166	24.70[illegible]37	158.12979	4.67923	7.85568	0.00120792	15.05251
5200.00	0.15547	6.43228	26.60[illegible]00	171.10[illegible]9	4.98042	8.10261	0.00097796	16.20048
5400.00	0.15481	6.45972	28.57[illegible]65	184.58417	5.29339	8.34162	0.00079715	17.39376
5600.00	0.15421	6.48456	30.62[illegible]42	198.57357	5.[illegible]1813	8.57314	0.00065395	18.63173
5800.00	0.15368	6.50709	32.74[illegible]30	213.07014	5.95477	8.79758	0.00053973	19.91474
6000.00	0.15319	6.52763	34.94[illegible]37	228.07[illegible]8	6.30315	9.01533	0.00044801	21.24239

T1 = 400.00 ALPHA = 0.90

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.43600	2.29359	1.58741	3.64086	1.07045	0.23595	0.82019355	1.12246
1000.00	0.34205	2.92357	1.98418	5.81550	1.12002	0.56995	0.81952199	1.34899
1200.00	0.28954	3.45370	2.45493	8.46545	1.17932	0.97768	0.43984249	1.62557
1400.00	0.25647	3.89902	2.99123	11.66286	1.24884	1.41965	0.30342266	1.94585
1600.00	0.23406	4.27241	3.59502	15.34644	1.32894	1.87375	0.20719102	2.30724
1800.00	0.21804	4.58629	4.25986	19.53698	1.41945	2.32707	0.14157236	2.70944
2000.00	0.20615	4.85085	4.99565	24.23314	1.52059	2.77225	0.09739915	3.15533
2200.00	0.19707	5.07446	5.80037	29.43374	1.63232	3.20521	0.06770023	3.64399
2400.00	0.18996	5.26414	6.67493	35.13775	1.75467	3.62361	0.04762838	4.17319
2600.00	0.18431	5.42558	7.62209	41.34342	1.88763	4.02712	0.03394079	4.74638
2800.00	0.17976	5.56289	8.63844	48.04354	2.03120	4.41503	0.02450160	5.36354
3000.00	0.17598	5.68232	9.72472	55.25899	2.18542	4.78734	0.01792079	6.02301
3200.00	0.17289	5.78409	10.88507	62.96616	2.35025	5.14508	0.01326898	6.72739
3400.00	0.17025	5.87357	12.11810	71.17656	2.52573	5.48838	0.00994454	7.47445
3600.00	0.16804	5.95101	13.42390	79.88570	2.71182	5.81829	0.00753740	8.26652
3800.00	0.16615	6.01854	14.80272	89.09070	2.90855	6.13544	0.00577441	9.10322
4000.00	0.16451	6.07852	16.25484	98.80539	3.11591	6.44043	0.00446925	9.98336
4200.00	0.16310	6.13109	17.78128	109.01230	3.33391	6.73412	0.00349206	10.90879
4400.00	0.16187	6.17763	19.37919	119.71741	3.56252	7.01713	0.00275314	11.87887
4600.00	0.16080	6.21896	21.05168	130.92080	3.80177	7.29008	0.00218899	12.89379
4800.00	0.15985	6.25604	22.79786	142.62434	4.05165	7.55354	0.00175437	13.95312
5000.00	0.15900	6.28924	24.61777	154.82699	4.31217	7.80808	0.00141661	15.05725
5200.00	0.15825	6.31914	26.51148	167.52941	4.58332	8.05423	0.00115199	16.20601
5400.00	0.15758	6.34603	28.47900	180.72851	4.86511	8.29247	0.00094303	17.39985
5600.00	0.15698	6.37040	30.52041	194.42725	5.15752	8.52324	0.00077684	18.63840
5800.00	0.15643	6.39251	32.63572	208.62401	5.46056	8.74696	0.00064373	19.92183
6000.00	0.15594	6.41266	34.82498	223.32147	5.77425	8.96400	0.00053644	21.24993

T1 = 400.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.44341	2.25524	1.57481	3.56059	1.06359	0.22866	0.82936858	1.12318
1000.00	0.34773	2.87583	1.97886	5.69085	1.10873	0.55539	0.63227334	1.34892
1200.00	0.29434	3.39746	2.44459	8.30541	1.16263	0.95905	0.45310909	1.62509
1400.00	0.26074	3.83524	2.97878	11.41664	1.22594	1.39775	0.31545659	1.94523
1600.00	0.23747	4.20214	3.57534	15.02416	1.29870	1.84910	0.21733983	2.30605
1800.00	0.22171	4.51045	4.24182	19.12801	1.38104	2.30005	0.14979080	2.70873
2000.00	0.20974	4.76786	4.97394	23.71517	1.47297	2.74363	0.10366558	3.15638
2200.00	0.20042	4.98961	5.77415	28.82074	1.57459	3.17426	0.07279534	3.64327
2400.00	0.19327	5.17410	6.64771	34.39591	1.68601	3.59147	0.05158710	4.17442
2600.00	0.18753	5.33261	7.58961	40.47359	1.80671	3.99316	0.03702863	4.74788
2800.00	0.18283	5.46941	8.60709	47.05387	1.93727	4.37924	0.02692424	5.36308
3000.00	0.17902	5.58587	9.68764	54.11508	2.07748	4.75433	0.01982067	6.02336
3200.00	0.17587	5.68586	10.84454	61.66058	2.22735	5.10676	0.01476878	6.72788
3400.00	0.17321	5.77320	12.07364	69.70359	2.38689	5.44894	0.01113481	7.47577
3600.00	0.17097	5.84901	13.37431	78.23246	2.55609	5.77773	0.00848829	8.26843
3800.00	0.16914	5.91566	14.74985	87.25516	2.73496	6.09373	0.00653943	9.10476
4000.00	0.16759	5.97405	16.19737	96.76395	2.92351	6.39776	0.00508606	9.98600
4200.00	0.16595	6.02579	17.71506	106.76521	3.12171	6.69044	0.00399607	10.91146
4400.00	0.16471	6.07145	19.31198	117.25188	3.32957	6.97250	0.00316607	11.88192
4600.00	0.16361	6.11200	20.97925	128.22514	3.54711	7.24455	0.00252928	12.89726
4800.00	0.16265	6.14827	22.71697	139.68847	3.77429	7.50716	0.00203638	13.95717
5000.00	0.16179	6.18076	24.53420	151.63997	4.01115	7.76086	0.00165160	15.06190
5200.00	0.16103	6.21003	26.42199	164.08143	4.25769	8.00623	0.00134881	16.21129
5400.00	0.16035	6.23646	28.38341	177.01271	4.51390	8.24369	0.00110874	17.40538
5600.00	0.15974	6.26030	30.41844	190.42859	4.77979	8.47373	0.00091699	18.64470
5800.00	0.15919	6.28195	32.52717	204.33481	5.05530	8.69673	0.00076282	19.92878
6000.00	0.15869	6.30171	34.70962	218.72995	5.34051	8.91308	0.00063807	21.25753

T1 = 450.00 ALPHA = 0.

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.39273	2.54625	1.57442	4.00866	1.59701	0.26405	0.76793659	1.06308
1000.00	0.30461	3.28075	1.94552	6.38275	2.00043	0.60613	0.54545628	1.26351
1200.00	0.25547	3.91436	2.37595	9.30032	2.48459	1.01829	0.36121088	1.50590
1400.00	0.22449	4.45446	2.86020	12.76736	3.05283	1.46431	0.23123645	1.79151
1600.00	0.20356	4.91255	3.41662	16.78439	3.70655	1.92283	0.14619246	2.10920
1800.00	0.18866	5.30061	4.02799	21.35076	4.44637	2.38123	0.09243697	2.46585
2000.00	0.17757	5.62856	4.70121	26.46100	5.27254	2.83227	0.05867927	2.86127
2200.00	0.16926	5.90802	5.43734	32.12390	6.18534	3.27141	0.03795289	3.29430
2400.00	0.16277	6.14370	6.23708	38.31875	7.18466	3.69688	0.02480074	3.76366
2600.00	0.15752	6.34826	7.10143	45.08140	8.27093	4.10881	0.01646023	4.26997
2800.00	0.15333	6.52207	8.03174	52.37765	9.44385	4.50160	0.01109122	4.81610
3000.00	0.14985	6.67351	9.02967	60.23292	10.70366	4.88093	0.00758994	5.39875
3200.00	0.14699	6.80316	10.09644	68.61975	12.05015	5.24565	0.00527039	6.02177
3400.00	0.14461	6.91524	11.21345	77.54376	13.48349	5.59620	0.00371193	6.68419
3600.00	0.14258	7.01383	12.40700	87.02068	15.00366	5.93308	0.00265032	7.38502
3800.00	0.14084	7.10002	13.66724	97.03765	16.61066	6.25711	0.00191678	8.12519
4000.00	0.13935	7.17619	14.99438	107.60242	18.30452	6.56893	0.00140330	8.90435
4200.00	0.13806	7.24323	16.38850	118.70564	20.08524	6.86930	0.00103921	9.72334
4400.00	0.13694	7.30256	17.84974	130.34874	21.95277	7.15866	0.00077794	10.58192
4600.00	0.13595	7.35558	19.37820	142.53289	23.90707	7.43720	0.00058834	11.47976
4800.00	0.13508	7.40291	20.97395	155.26834	25.94824	7.70794	0.00044925	12.41730
5000.00	0.13431	7.44549	22.63707	168.54487	28.07635	7.96801	0.00034616	13.39412
5200.00	0.13362	7.48370	24.36758	182.35964	30.29126	8.22077	0.00026901	14.41080
5400.00	0.13301	7.51809	26.16553	196.71462	32.59300	8.46488	0.00021074	15.46735
5600.00	0.13246	7.54934	28.03099	211.61562	34.98162	8.70138	0.00016636	16.56329
5800.00	0.13197	7.57766	29.96396	227.05676	37.45704	8.93070	0.00013227	17.69906
6000.00	0.13152	7.60353	31.96449	243.04245	40.01941	9.15321	0.00010588	18.87431

T1 = 450.00 ALPHA = 0.10

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.40083	2.49483	1.56437	3.90784	1.32845	0.25292	0.78060797	1.06428
1000.00	0.31107	3.21466	1.93803	6.22347	1.55226	0.58949	0.56142049	1.26438
1200.00	0.26081	3.83421	2.36472	9.06683	1.82057	0.99750	0.37649899	1.50803
1400.00	0.22908	4.36538	2.85726	12.45550	2.13552	1.43949	0.24422176	1.79184
1600.00	0.20772	4.81412	3.40177	16.37654	2.49772	1.89497	0.15634034	2.10915
1800.00	0.19256	5.19055	4.01193	20.81824	2.90750	2.35134	0.09999430	2.46609
2000.00	0.18126	5.51610	4.68215	25.82750	3.36534	2.79937	0.06448076	2.86108
2200.00	0.17260	5.78711	5.41581	31.34186	3.87096	3.23668	0.04201061	3.29562
2400.00	0.16613	6.01923	6.21709	37.39797	4.42463	3.66030	0.02775091	3.76440
2600.00	0.16077	6.22015	7.07476	44.00607	5.02644	4.06844	0.01860787	4.27035
2800.00	0.15648	6.39045	8.00120	51.13129	5.67623	4.46166	0.01266073	4.81634
3000.00	0.15299	6.53656	8.99295	58.78313	6.37406	4.83983	0.00874224	5.40116
3200.00	0.15007	6.66377	10.05549	66.97421	7.12005	5.20316	0.00612489	6.02419
3400.00	0.14762	6.77411	11.17408	75.69446	7.91419	5.55237	0.00435092	6.68616
3600.00	0.14555	6.87070	12.36799	84.94926	8.75627	5.88804	0.00313200	7.38699
3800.00	0.14378	6.95506	13.62839	94.73064	9.64653	6.21094	0.00228292	8.12743
4000.00	0.14227	7.02900	14.94544	105.03750	10.58467	6.52177	0.00168382	8.90764
4200.00	0.14095	7.09472	16.33333	115.88070	11.57134	6.82111	0.00125599	9.72679
4400.00	0.13981	7.15281	17.79013	127.24940	12.60591	7.10970	0.00094678	10.58565
4600.00	0.13880	7.20466	19.31596	139.15054	13.68866	7.38811	0.00072084	11.48390
4800.00	0.13791	7.25089	20.90486	151.57889	14.81940	7.65698	0.00055398	12.42194
5000.00	0.13713	7.29251	22.56293	164.54040	15.99861	7.91680	0.00042952	13.39928
5200.00	0.13643	7.32973	24.28818	178.02554	17.22533	8.16816	0.00033581	14.41673
5400.00	0.13581	7.36344	26.08870	192.04364	18.50046	8.41148	0.00026461	15.47360
5600.00	0.13524	7.39405	27.94451	206.59341	19.82372	8.64721	0.00021006	16.56995
5800.00	0.13474	7.42168	29.86762	221.66782	21.19508	8.87581	0.00016793	17.70640
6000.00	0.13428	7.44692	31.86209	237.27459	22.61455	9.09762	0.00013514	18.88232

T2 = 450.00 ALPHA = 0.20

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.40884	2.44597	1.55838	3.81176	1.22544	0.24203	0.79278468	1.06524
1000.00	0.31765	3.15110	1.92854	6.07071	1.38035	0.57330	0.57693277	1.26271
1200.00	0.26540	3.76076	2.35367	8.85164	1.56593	0.97640	0.39168908	1.50857
1400.00	0.23365	4.27987	2.84034	12.15629	1.78372	1.41511	0.25725759	1.78873
1600.00	0.21187	4.71982	3.38894	15.98573	2.03414	1.86752	0.16667212	2.10914
1800.00	0.19638	5.09214	3.99420	20.33906	2.31753	2.32071	0.10790286	2.46659
2000.00	0.18473	5.40749	4.66307	25.21546	2.63393	2.76705	0.07031609	2.86145
2200.00	0.17571	5.67512	5.39447	30.61422	2.98356	3.20218	0.04631810	3.29427
2400.00	0.16949	5.89997	6.18911	36.51557	3.36619	3.62414	0.03089804	3.76508
2600.00	0.16461	6.09706	7.04811	42.97271	3.78221	4.03054	0.02092163	4.27094
2800.00	0.15986	6.26343	7.97164	49.92977	4.23138	4.42228	0.01436723	4.81724
3000.00	0.15618	6.40697	8.96035	57.40860	4.71379	4.79894	0.01000983	5.40199
3200.00	0.15312	6.53094	10.01460	65.40479	5.22944	5.16101	0.00707238	6.02574
3400.00	0.15063	6.63688	11.13473	73.92267	5.77834	5.50897	0.00506503	6.68795
3600.00	0.14852	6.73330	12.32098	82.96087	6.36049	5.84347	0.00367457	7.38907
3800.00	0.14672	6.81564	13.57352	92.51226	6.97586	6.16528	0.00269847	8.13011
4000.00	0.14517	6.88833	14.89256	102.58401	7.62453	6.47500	0.00200478	8.91018
4200.00	0.14384	6.95220	16.27818	113.16911	8.30642	6.77338	0.00150570	9.73025
4400.00	0.14267	7.00916	17.73055	124.27626	9.02154	7.06099	0.00114262	10.58935
4600.00	0.14165	7.05974	19.24971	135.89799	9.76999	7.33851	0.00087552	11.48826
4800.00	0.14074	7.10520	20.83580	148.04256	10.55167	7.60646	0.00067705	12.42628
5000.00	0.13994	7.14573	22.48861	160.69895	11.36660	7.86546	0.00052808	13.40443
5200.00	0.13923	7.18215	24.20882	173.87137	12.21478	8.11600	0.00041525	14.42233
5400.00	0.13860	7.21516	25.99589	187.56455	13.09623	8.35853	0.00032905	15.47960
5600.00	0.13803	7.24500	27.85004	201.77346	14.01093	8.59352	0.00026263	16.57669
5800.00	0.13751	7.27199	29.77129	216.49660	14.95889	8.82139	0.00021106	17.71375
6000.00	0.13705	7.29668	31.75971	231.74056	15.94011	9.04250	0.00017071	18.89025

T1 = 450.00 ALPHA = 0.30

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.41728	2.39644	1.55015	3.71485	1.17084	0.23220	0.80384584	1.06758
1000.00	0.32382	3.09008	1.91706	5.92388	1.28943	0.55748	0.59201689	1.26429
1200.00	0.27109	3.68882	2.34257	8.64138	1.43132	0.95602	0.40698620	1.50950
1400.00	0.23821	4.19796	2.82744	11.86951	1.59769	1.39110	0.27033325	1.78959
1600.00	0.21682	4.62925	3.37212	15.61038	1.78900	1.84049	0.17716361	2.10924
1800.00	0.20082	4.99199	3.97723	19.85429	2.00542	2.29147	0.11593222	2.46821
2000.00	0.18886	5.30057	4.64368	24.61519	2.24713	2.73559	0.07635382	2.86339
2200.00	0.17978	5.56224	5.37289	29.88532	2.51414	3.16876	0.05080801	3.29642
2400.00	0.17283	5.78594	6.16517	35.67128	2.80652	3.58835	0.03424352	3.76546
2600.00	0.16726	5.97855	7.02145	41.97810	3.12429	3.99314	0.02340292	4.27180
2800.00	0.16285	6.14072	7.94205	48.76995	3.46737	4.38345	0.01621350	4.81879
3000.00	0.15919	6.28167	8.92771	56.08099	3.83586	4.75663	0.01139358	5.40361
3200.00	0.15617	6.40333	9.97872	63.89765	4.22973	5.11932	0.00811634	6.02706
3400.00	0.15362	6.50947	11.09542	72.22529	4.64902	5.46595	0.00585867	6.68923
3600.00	0.15149	6.60122	12.27798	81.04965	5.09367	5.79937	0.00428193	7.39132
3800.00	0.14966	6.68169	13.52666	90.38097	5.56372	6.12008	0.00316713	8.13290
4000.00	0.14809	6.75269	14.84165	100.22110	6.05918	6.42876	0.00236923	8.91352
4200.00	0.14672	6.81551	16.22305	110.56840	6.58004	6.72609	0.00179135	9.73346
4400.00	0.14554	6.87117	17.67097	121.42027	7.12630	7.01275	0.00136809	10.59312
4600.00	0.14449	6.92076	19.18551	132.77821	7.69795	7.28933	0.00105476	11.49229
4800.00	0.14358	6.96496	20.76672	144.63922	8.29502	7.55644	0.00082050	12.43126
5000.00	0.14276	7.00476	22.41470	157.00957	8.91749	7.81458	0.00064367	13.40958
5200.00	0.14204	7.04047	24.12947	169.88262	9.56536	8.06429	0.00050896	14.42779
5400.00	0.14139	7.07262	25.91107	183.25919	10.23863	8.30606	0.00040546	15.48593
5600.00	0.14081	7.10185	27.75958	197.14436	10.93731	8.54028	0.00032531	16.58346
5800.00	0.14029	7.12832	29.67499	211.53274	11.66139	8.76742	0.00026275	17.72094
6000.00	0.13981	7.15240	31.65733	226.42590	12.41088	8.98783	0.00021356	18.89820

T1 = 450.00 ALPHA = 0.40

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.42545	2.35047	1.54208	3.62461	1.13714	0.22227	0.81470389	1.06905
1000.00	0.32953	3.03188	1.90763	5.78370	1.23318	0.54194	0.60673211	1.26562
1200.00	0.27627	3.61969	2.33149	8.43927	1.34800	0.93602	0.42188971	1.50911
1400.00	0.24276	4.11929	2.81457	11.59469	1.48259	1.36749	0.28342033	1.79042
1600.00	0.22015	4.54226	3.35732	15.24986	1.63733	1.81388	0.18779751	2.10939
1800.00	0.20408	4.90010	3.96049	19.40640	1.81240	2.26188	0.12425150	2.46746
2000.00	0.19220	5.20298	4.62496	24.06355	2.00789	2.70369	0.08267840	2.86228
2200.00	0.18318	5.45907	5.35160	29.21475	2.22384	3.13491	0.05555468	3.29518
2400.00	0.17614	5.67721	6.14130	34.86547	2.46028	3.55286	0.03778920	3.76526
2600.00	0.17052	5.86437	6.99479	41.02084	2.71725	3.95622	0.02605271	4.27291
2800.00	0.16602	6.02324	7.91250	47.65891	2.99471	4.34499	0.01820468	4.82000
3000.00	0.16231	6.16112	8.89508	54.80365	3.29271	4.71877	0.01289779	5.40522
3200.00	0.15922	6.28055	9.94284	62.44647	3.61126	5.07808	0.00926058	6.02857
3400.00	0.15664	6.38391	11.05605	70.58081	3.95033	5.42356	0.00673449	6.69164
3600.00	0.15446	6.47420	12.23499	79.21179	4.30994	5.75572	0.00495790	7.39369
3800.00	0.15260	6.55311	13.47983	88.33401	4.69008	6.07530	0.00369260	8.13543
4000.00	0.15099	6.62283	14.79079	97.95684	5.09078	6.38290	0.00278078	8.91612
4200.00	0.14961	6.68425	16.16795	108.07056	5.51201	6.67924	0.00211595	9.73652
4400.00	0.14840	6.73855	17.61141	118.67539	5.95377	6.96496	0.00162591	10.59685
4600.00	0.14734	6.78719	19.12131	129.77997	6.41609	7.24061	0.00126102	11.49624
4800.00	0.14640	6.83050	20.69769	141.37554	6.89895	7.50683	0.00098656	12.43559
5000.00	0.14558	6.86924	22.34060	153.46285	7.40235	7.76415	0.00077819	13.41479
5200.00	0.14484	6.90426	24.05013	166.04834	7.92630	8.01304	0.00061862	14.43335
5400.00	0.14418	6.93578	25.82630	179.12554	8.47078	8.25401	0.00049538	15.49185
5600.00	0.14359	6.96426	27.66913	192.69562	9.03582	8.48750	0.00039943	16.59020
5800.00	0.14306	6.99022	29.57869	206.76147	9.62140	8.71390	0.00032418	17.72813
6000.00	0.14258	7.01380	31.55498	221.32022	10.22752	8.93360	0.00026474	18.90594

T1 = 450.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.43350	2.30627	1.53401	3.53785	1.11419	0.21266	0.82503858	1.07051
1000.00	0.33602	2.97603	1.89823	5.64917	1.19493	0.52673	0.62104157	1.26685
1200.00	0.28144	3.55315	2.32043	8.24483	1.29136	0.91643	0.43658046	1.50888
1400.00	0.24750	4.04359	2.80171	11.32897	1.40434	1.34429	0.29649463	1.79127
1600.00	0.22428	4.45671	3.34255	14.90345	1.53423	1.78765	0.19855638	2.10955
1800.00	0.20799	4.80790	3.94457	18.96027	1.68115	2.23341	0.13268064	2.46691
2000.00	0.19567	5.10547	4.60567	23.51512	1.84522	2.67284	0.08916936	2.86344
2200.00	0.18602	5.35849	5.33025	28.56211	2.02648	3.10171	0.06050242	3.29491
2400.00	0.17948	5.57158	6.11738	34.08349	2.22491	3.51796	0.04152267	3.76587
2600.00	0.17378	5.75436	6.96813	40.09719	2.44055	3.91977	0.02887169	4.27420
2800.00	0.16919	5.91046	7.88198	46.59206	2.67342	4.30693	0.02034270	4.82105
3000.00	0.16540	6.04587	8.86251	53.58160	2.92352	4.67924	0.01452721	5.40600
3200.00	0.16227	6.16248	9.90798	61.05156	3.19085	5.03728	0.01050887	6.03008
3400.00	0.15965	6.26386	11.01674	69.00754	3.47541	5.38148	0.00769781	6.69325
3600.00	0.15743	6.35210	12.19202	77.44495	3.77720	5.71251	0.00570629	7.39598
3800.00	0.15553	6.42951	13.43303	86.36777	4.09623	6.03096	0.00427839	8.13779
4000.00	0.15390	6.49791	14.73995	95.77691	4.43251	6.33748	0.00324259	8.91865
4200.00	0.15249	6.55776	16.11283	105.66445	4.78601	6.63285	0.00248245	9.73993
4400.00	0.15126	6.61114	17.55167	116.03791	5.15676	6.91759	0.00191888	10.60029
4600.00	0.15018	6.65866	19.05713	126.89497	5.54474	7.19233	0.00149672	11.50029
4800.00	0.14923	6.70109	20.62866	138.23453	5.94997	7.45767	0.00117741	12.44004
5000.00	0.14839	6.73914	22.26654	150.05747	6.37244	7.71412	0.00093368	13.41946
5200.00	0.14764	6.77323	23.97080	162.35971	6.81215	7.96223	0.00074602	14.43896
5400.00	0.14697	6.80418	25.74153	175.14996	7.26910	8.20241	0.00060037	15.49775
5600.00	0.14637	6.83209	27.57872	188.42031	7.74329	8.43514	0.00048642	16.59658
5800.00	0.14583	6.85740	29.48241	202.17267	8.23472	8.66082	0.00039662	17.73528
6000.00	0.14534	6.88051	31.45265	216.41018	8.74340	8.87982	0.00032536	18.91359

T1 = 450.00 ALPHA = 0.60

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.44175	2.26374	1.52596	3.45437	1.09756	0.20338	0.83467055	1.07196
1000.00	0.34219	2.92235	1.88864	5.51987	1.16722	0.51166	0.83494128	1.26799
1200.00	0.28651	3.48902	2.30937	8.05746	1.25033	0.89723	0.45104139	1.50880
1400.00	0.25184	3.97071	2.78887	11.07390	1.34768	1.32148	0.30953865	1.79211
1600.00	0.22840	4.37827	3.32760	14.56999	1.45958	1.76182	0.20941821	2.10977
1800.00	0.21175	4.72265	3.92285	18.54516	1.58615	2.20467	0.14136582	2.46837
2000.00	0.19944	5.01398	4.58492	22.99876	1.72747	2.64197	0.09589915	2.86315
2200.00	0.19017	5.25840	5.30474	27.91540	1.88355	3.06950	0.06562212	3.29692
2400.00	0.18267	5.46834	6.09339	33.32075	2.05447	3.48375	0.04543620	3.76767
2600.00	0.17704	5.64844	6.94149	39.20850	2.24023	3.88374	0.03166045	4.27554
2800.00	0.17235	5.80200	7.85348	45.56592	2.44080	4.26928	0.02202906	4.82205
3000.00	0.16848	5.93530	8.82998	52.40855	2.65623	4.64007	0.01628429	5.40647
3200.00	0.16530	6.04971	9.87120	59.71794	2.88649	4.99677	0.01166592	6.03067
3400.00	0.16254	6.14843	10.97746	67.49420	3.13157	5.33983	0.00875168	6.69478
3600.00	0.16039	6.23488	12.14908	75.74807	3.39151	5.66968	0.00653087	7.39784
3800.00	0.15846	6.31059	13.38624	84.47989	3.66629	5.98703	0.00492793	8.14009
4000.00	0.15680	6.37740	14.68910	93.67832	3.95593	6.29252	0.00375779	8.92159
4200.00	0.15537	6.43620	16.05776	103.35004	4.26043	6.58687	0.00289397	9.74304
4400.00	0.15412	6.48852	17.49236	113.49957	4.57973	6.87064	0.00224974	10.60370
4600.00	0.15302	6.53492	18.99295	124.11739	4.91390	7.14449	0.00176439	11.50440
4800.00	0.15206	6.57650	20.55964	135.21043	5.26293	7.40894	0.00139533	12.44455
5000.00	0.15120	6.61368	22.19247	146.77378	5.62680	7.66457	0.00111214	13.42466
5200.00	0.15044	6.64720	23.89150	158.81152	6.00553	7.91185	0.00089303	14.44432
5400.00	0.14976	6.67746	25.65678	171.32219	6.39910	8.15125	0.00072211	15.50374
5600.00	0.14915	6.70484	27.48832	184.30476	6.80753	8.38322	0.00058776	16.60298
5800.00	0.14860	6.72969	29.38617	197.75987	7.23081	8.60816	0.00048141	17.74204
6000.00	0.14810	6.75220	31.35033	211.68842	7.66893	8.82647	0.00039662	18.92124

T1 = 450.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.44969	2.22279	1.51791	3.37389	1.06494	0.19441	0.84421993	1.07340
1000.00	0.34635	2.87069	1.87548	5.39542	1.14623	0.49734	0.84642902	1.26845
1200.00	0.29178	3.42726	2.29834	7.87706	1.21925	0.87441	0.86527328	1.50880
1400.00	0.25636	3.90071	2.77406	10.82861	1.30476	1.29902	0.82254827	1.79284
1600.00	0.23251	4.30084	3.31706	14.24895	1.40302	1.73638	0.77036747	2.11002
1800.00	0.21557	4.63891	3.91007	18.13647	1.51417	2.17605	0.71017441	2.46881
2000.00	0.20311	4.92340	4.56706	22.48977	1.63825	2.61197	0.65278290	2.86446
2200.00	0.19362	5.16465	5.28739	27.30765	1.77531	3.03722	0.60096655	3.29714
2400.00	0.18612	5.37297	6.06967	32.61219	1.92542	3.44923	0.54956709	3.76640
2600.00	0.18029	5.54663	6.91467	38.35426	2.08868	3.84809	0.50501962	4.27655
2800.00	0.17551	5.69757	7.82401	44.57784	2.26460	4.23204	0.46506488	4.82302
3000.00	0.17157	5.82836	8.79744	51.27489	2.45375	4.60139	0.41816955	5.40741
3200.00	0.16836	5.93966	9.83533	58.41858	2.65591	4.95691	0.38333083	6.03285
3400.00	0.16554	6.03702	10.93518	66.03419	2.87111	5.29862	0.35089898	6.69658
3600.00	0.16334	6.12212	12.10518	74.11554	3.09935	5.62724	0.32743495	7.39940
3800.00	0.16149	6.19816	13.33947	82.65327	3.34062	5.94351	0.30564463	8.14223
4000.00	0.15971	6.26147	14.63928	91.65729	3.59492	6.24797	0.28432973	8.92433
4200.00	0.15824	6.31934	16.00372	101.12650	3.86227	6.54128	0.26335357	9.74570
4400.00	0.15698	6.37026	17.43284	111.05286	4.14264	6.82414	0.25262123	10.60736
4600.00	0.15587	6.41580	18.92680	121.44341	4.43605	7.09706	0.24206662	11.50837
4800.00	0.15498	6.45657	20.49066	132.29930	4.74251	7.36063	0.23164269	12.44888
5000.00	0.15421	6.49296	22.11843	143.61456	5.06200	7.61542	0.22131575	13.42947
5200.00	0.15354	6.52583	23.81222	155.39442	5.39453	7.86188	0.21106154	14.44959
5400.00	0.15295	6.55540	25.57203	167.63481	5.74010	8.10051	0.20086232	15.50971
5600.00	0.15192	6.58224	27.39793	180.33987	6.09871	8.33172	0.19070502	16.60942
5800.00	0.15197	6.60652	29.28692	193.50439	6.47035	8.55595	0.18057994	17.74922
6000.00	0.15066	6.62867	31.24604	207.13276	6.85504	8.77354	0.17047981	18.92872

T1 = 450.00 ALPHA = 0.80

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.45602	2.18333	1.50986	3.29653	1.07506	0.16575	0.85310628	1.07485
1000.00	0.35450	2.82089	1.87114	5.27540	1.12977	0.48316	0.66150376	1.26856
1200.00	0.29641	3.36803	2.28735	7.70387	1.19489	0.85968	0.47929284	1.51145
1400.00	0.26067	3.83330	2.76827	10.59245	1.27111	1.27692	0.33550014	1.79301
1600.00	0.23651	4.22632	3.29836	13.93990	1.35869	1.71130	0.23139061	2.11024
1800.00	0.21951	4.55569	3.89715	17.73597	1.45772	2.14955	0.15605927	2.47076
2000.00	0.20686	4.83682	4.54897	22.01166	1.56834	2.58183	0.10989762	2.86402
2200.00	0.19698	5.07656	5.26421	26.73429	1.69050	3.00491	0.07653123	3.29580
2400.00	0.18946	5.27626	6.04579	31.91129	1.82423	3.41562	0.05386198	3.76729
2600.00	0.18352	5.44898	6.88831	37.53426	1.96955	3.81276	0.03835009	4.27690
2800.00	0.17867	5.59699	7.79455	43.62598	2.12650	4.19520	0.02765104	4.82393
3000.00	0.17468	5.72487	8.76488	50.17776	2.29505	4.56320	0.02018459	5.40878
3200.00	0.17140	5.83423	9.79852	57.17266	2.47521	4.91735	0.01490976	6.03432
3400.00	0.16864	5.92973	10.89492	64.62764	2.66695	5.25782	0.01114310	6.69827
3600.00	0.16631	6.01281	12.06324	72.53390	2.87037	5.58532	0.00842086	7.40182
3800.00	0.16431	6.08612	13.29276	80.90134	3.08536	5.90036	0.00643184	8.14401
4000.00	0.16261	6.14981	14.58748	89.71031	3.31199	6.20362	0.00496153	8.92692
4200.00	0.16112	6.20644	15.94767	98.97822	3.55022	6.49414	0.00386399	9.74880
4400.00	0.15984	6.25644	17.37336	108.69563	3.80007	6.77803	0.00303618	10.61076
4600.00	0.15870	6.30124	18.86470	118.87090	4.06155	7.05001	0.00240604	11.51182
4800.00	0.15770	6.34106	20.42170	129.49557	4.33463	7.31272	0.00192185	12.45299
5000.00	0.15682	6.37666	22.04442	140.57016	4.61934	7.56668	0.00154664	13.43417
5200.00	0.15603	6.40887	23.73296	152.10155	4.91566	7.81233	0.00125355	14.45478
5400.00	0.15533	6.43784	25.48733	164.08327	5.22361	8.05016	0.00102281	15.51541
5600.00	0.15470	6.46415	27.30758	176.52031	5.54317	8.28064	0.00083983	16.61562
5800.00	0.15413	6.48789	29.19370	189.40541	5.87435	8.50414	0.00069370	17.75611
6000.00	0.15362	6.50960	31.14576	202.74633	6.21715	8.72103	0.00057625	18.93616

T1 = 450.00 ALPHA = 0.90

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.46614	2.14527	1.50163	3.221[illegible]	1.06709	0.17739	0.86154857	1.07629
1000.00	0.36055	2.77281	1.86[illegible]61	5.159[illegible]	1.11651	0.46933	0.67416563	1.26877
1200.00	0.30283	3.31098	2.27[illegible]38	7.537[illegible]5	1.17527	0.84169	0.49307561	1.51166
1400.00	0.26537	3.76826	2.75[illegible]51	10.364[illegible]	1.24403	1.25519	0.34537617	1.79252
1600.00	0.24071	4.15446	3.28367	13.64169	1.32301	1.68659	0.24246792	2.11049
1800.00	0.22319	4.48046	3.87[illegible]56	17.36079	1.41233	2.12177	0.16822174	2.46966
2000.00	0.21026	4.75597	4.53003	21.54[illegible]	1.51205	2.55234	0.11716251	2.86443
2200.00	0.20047	4.98817	5.24[illegible]63	26.162[illegible]	1.62219	2.97365	0.08223840	3.29695
2400.00	0.19277	5.18761	6.02[illegible]98	31.239[illegible]	1.74286	3.38227	0.05834348	3.76718
2600.00	0.18672	5.35562	6.86[illegible]82	36.74929	1.87383	3.77768	0.04185332	4.27658
2800.00	0.18161	5.50012	7.76[illegible]12	42.709[illegible]	2.01534	4.15873	0.03038824	4.82451
3000.00	0.17777	5.62527	8.73[illegible]35	49.121[illegible]	2.16732	4.52536	0.02233261	5.40995
3200.00	0.17443	5.73291	9.76[illegible]76	55.97474	2.32976	4.87613	0.01660476	6.03539
3400.00	0.17182	5.82688	10.[illegible]5973	63.27634	2.50269	5.21731	0.01248783	6.69919
3600.00	0.16925	5.90835	12.[illegible]2041	71.02042	2.68607	5.54364	0.00949348	7.40291
3800.00	0.16724	5.97927	13.24598	79.20139	2.87992	5.85774	0.00729168	8.14683
4000.00	0.16550	6.04224	14.53[illegible]72	87.83[illegible]	3.08425	6.16006	0.00565621	8.92932
4200.00	0.16400	6.09755	15.89264	96.90613	3.29905	6.45141	0.00442821	9.75190
4400.00	0.16268	6.14686	17.31[illegible]92	106.42621	3.52435	6.73230	0.00349741	10.61371
4600.00	0.16154	6.19035	18.80[illegible]54	116.38193	3.76013	7.00344	0.00278499	11.51600
4800.00	0.16053	6.22948	20.35[illegible]73	126.78699	4.00634	7.26525	0.00223512	12.45747
5000.00	0.15963	6.26449	21.97[illegible]42	137.63352	4.26305	7.51835	0.00180701	13.43890
5200.00	0.15883	6.29599	23.65[illegible]71	148.92330	4.53023	7.76320	0.00147105	14.46015
5400.00	0.15812	6.32443	25.40[illegible]63	160.65[illegible]	4.80787	8.00027	0.00120541	15.52116
5600.00	0.15748	6.35017	27.21722	172.83309	5.09603	8.22998	0.00099386	16.62202
5800.00	0.15690	6.37349	29.09749	185.45250	5.39465	8.45275	0.00082423	17.76291
6000.00	0.15638	6.39481	31.04[illegible]51	198.51735	5.70374	8.66892	0.00068735	18.94338

T1 = 450.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.47426	2.10855	1.49381	3.14976	1.06053	0.16932	0.86956519	1.07773
1000.00	0.36679	2.72634	1.85150	5.04741	1.10561	0.45585	0.68641570	1.26908
1200.00	0.30713	3.25595	2.26544	7.37617	1.15914	0.82383	0.50661107	1.51184
1400.00	0.26967	3.70548	2.73776	10.14474	1.22175	1.23363	0.36115953	1.79215
1600.00	0.24480	4.08501	3.26400	13.35389	1.29365	1.66228	0.25357825	2.11081
1800.00	0.22699	4.40545	3.85485	17.00437	1.37498	2.09487	0.17743374	2.47004
2000.00	0.21386	4.67605	4.51110	21.09419	1.46577	2.52322	0.12459015	2.86482
2200.00	0.20387	4.90520	5.22362	25.62288	1.56605	2.94232	0.08815535	3.29641
2400.00	0.19608	5.09984	5.99516	30.58963	1.67585	3.34936	0.06299860	3.76730
2600.00	0.18993	5.26504	6.83532	35.98818	1.79512	3.74307	0.04551933	4.27671
2800.00	0.18495	5.40691	7.73573	41.82643	1.92394	4.12259	0.03327716	4.82472
3000.00	0.18085	5.52931	8.69986	48.10418	2.06229	4.48790	0.02461466	5.41097
3200.00	0.17745	5.63528	9.72804	54.82025	2.21017	4.83928	0.01841749	6.03627
3400.00	0.17463	5.72653	10.82146	61.96365	2.36757	5.17738	0.01393249	6.70148
3600.00	0.17222	5.80645	11.97748	69.54663	2.53451	5.50255	0.01065283	7.40551
3800.00	0.17017	5.87653	13.19926	77.56590	2.71099	5.81545	0.00822804	8.14907
4000.00	0.16840	5.93834	14.48596	86.02262	2.89700	6.11671	0.00641653	8.93179
4200.00	0.16687	5.99255	15.83763	94.90784	3.09255	6.40707	0.00504911	9.75482
4400.00	0.16554	6.04073	17.25445	104.22949	3.29763	6.68703	0.00400733	10.61732
4600.00	0.16437	6.08374	18.73650	113.98796	3.51225	6.95719	0.00320633	11.51933
4800.00	0.16335	6.12187	20.28378	124.17469	3.73639	7.21818	0.00258495	12.46174
5000.00	0.16244	6.15621	21.89644	134.79919	3.97008	7.47043	0.00209907	13.44361
5200.00	0.16163	6.18710	23.57448	145.85775	4.21331	7.71447	0.00171610	14.46529
5400.00	0.16090	6.21508	25.31797	157.35316	4.46608	7.95074	0.00141204	15.52658
5600.00	0.16025	6.24021	27.12688	169.27732	4.72837	8.17972	0.00116886	16.62828
5800.00	0.15967	6.26309	29.00131	181.63796	5.00021	8.40175	0.00097312	17.76962
6000.00	0.15914	6.28396	30.94126	194.43359	5.28158	8.61723	0.00081456	18.95078

T1 = 500.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.41643	2.40134	1.50850	3.60322	1.52418	0.20995	0.81062214	1.02016
1000.00	0.31948	3.13008	1.83449	5.74214	1.88973	0.51698	0.59632013	1.19609
1200.00	0.26528	3.76958	2.22684	8.37162	2.32643	0.89922	0.40668726	1.41276
1400.00	0.23147	4.32019	2.66085	11.49537	2.83804	1.32068	0.26690009	1.66516
1600.00	0.20891	4.78677	3.15504	15.10245	3.42591	1.76035	0.17198521	1.95000
1800.00	0.19270	5.18943	3.70454	19.22445	4.09119	2.20241	0.11053594	2.27156
2000.00	0.18097	5.52584	4.30972	23.81485	4.83366	2.64097	0.07129231	2.62636
2200.00	0.17195	5.81564	4.97179	28.91419	5.65399	3.06951	0.04644398	3.01298
2400.00	0.16495	6.06234	5.69131	34.50266	6.55209	3.48596	0.03062359	3.43507
2600.00	0.15937	6.27480	6.46898	40.59155	7.52812	3.88867	0.02047248	3.89017
2800.00	0.15492	6.45494	7.30515	47.15426	8.58194	4.27750	0.01387737	4.38097
3000.00	0.15125	6.61177	8.20042	54.21932	9.71379	4.65180	0.00954442	4.90591
3200.00	0.14821	6.74706	9.15504	61.76965	10.92357	5.01213	0.00666673	5.46608
3400.00	0.14568	6.86416	10.16927	69.80351	12.21129	5.35891	0.00470601	6.06204
3600.00	0.14353	6.96710	11.24342	78.33405	13.57705	5.69255	0.00337099	6.69246
3800.00	0.14170	7.05693	12.37754	87.34777	15.02078	6.01380	0.00244478	7.35881
4000.00	0.14012	7.13661	13.57198	96.85764	16.54256	6.32316	0.00179427	8.05977
4200.00	0.13876	7.20667	14.82667	106.85100	18.14231	6.62139	0.00133158	8.79667
4400.00	0.13758	7.26858	16.14176	117.32769	19.82005	6.90908	0.00099868	9.56960
4600.00	0.13654	7.32410	17.51737	128.29887	21.57584	7.18674	0.00075655	10.37754
4800.00	0.13562	7.37358	18.95353	139.75543	23.40963	7.45500	0.00057854	11.22134
5000.00	0.13480	7.41819	20.45033	151.70453	25.32147	7.71433	0.00044638	12.10039
5200.00	0.13408	7.45818	22.00779	164.13809	27.31131	7.96530	0.00034731	13.01541
5400.00	0.13344	7.49420	23.62594	177.05756	29.37916	8.20834	0.00027237	13.96629
5600.00	0.13286	7.52697	25.30485	190.46862	31.52506	8.44387	0.00021522	14.95259
5800.00	0.13233	7.55663	27.04453	204.36547	33.74896	8.67232	0.00017126	15.97476
6000.00	0.13186	7.58369	28.84500	218.75142	36.05090	8.89405	0.00013720	17.03259

T1 = 500.00 ALPHA = 0.10

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.42546	2.35041	1.49289	3.50890	1.30143	0.20840	0.82186687	1.02275
1000.00	0.32618	3.06582	1.82890	5.59789	1.51390	0.50139	0.91201245	1.19751
1200.00	0.27078	3.69302	2.21069	8.16485	1.76741	0.87885	0.42268822	1.41375
1400.00	0.23642	4.22974	2.64923	11.20553	2.06417	1.29721	0.28073663	1.66727
1600.00	0.21308	4.69297	3.14199	14.74520	2.40536	1.73234	0.18333142	1.95042
1800.00	0.19668	5.08432	3.68955	18.75886	2.79121	2.17218	0.11917202	2.27196
2000.00	0.18472	5.41366	4.29277	23.23957	3.22186	2.60835	0.07774477	2.62766
2200.00	0.17547	5.69914	4.95280	28.22669	3.69773	3.03449	0.05121928	3.01270
2400.00	0.16859	5.93866	5.66997	33.67211	4.21854	3.44934	0.03411697	3.43659
2600.00	0.16286	6.14692	6.44523	39.61826	4.78471	3.85124	0.02304067	3.89128
2800.00	0.15812	6.32441	7.27866	46.03446	5.39597	4.23730	0.01577174	4.38166
3000.00	0.15442	6.47602	8.17128	52.91734	6.05234	4.61067	0.01094487	4.90804
3200.00	0.15132	6.60872	9.12298	60.29193	6.75407	4.96928	0.00770138	5.46828
3400.00	0.14873	6.72358	10.13412	68.13786	7.50095	5.31474	0.00549092	6.06421
3600.00	0.14653	6.82465	11.20500	76.47020	8.29312	5.64711	0.00396539	6.69466
3800.00	0.14466	6.91265	12.33572	85.27240	9.13049	5.96720	0.00289835	7.36104
4000.00	0.14307	6.98982	13.52643	94.54774	10.01308	6.27558	0.00214289	8.06328
4200.00	0.14167	7.05861	14.77732	104.30726	10.94095	6.57274	0.00160183	8.80025
4400.00	0.14046	7.11933	16.08842	114.53879	11.91405	6.85943	0.00120973	9.57330
4600.00	0.13940	7.17346	17.45964	125.24741	12.93239	7.13618	0.00092255	10.38187
4800.00	0.13847	7.22190	18.89164	136.43350	13.99594	7.40353	0.00071004	11.22599
5000.00	0.13764	7.26544	20.38497	148.09800	15.10485	7.66202	0.00055125	12.10563
5200.00	0.13690	7.30451	21.93863	160.23636	16.25895	7.91217	0.00043148	13.02118
5400.00	0.13624	7.33984	23.54969	172.85230	17.45830	8.15440	0.00034036	13.97236
5600.00	0.13565	7.37186	25.22372	185.94611	18.70291	8.38917	0.00027045	14.95913
5800.00	0.13512	7.40088	26.95812	199.51367	19.99277	8.61688	0.00021639	15.98186
6000.00	0.13464	7.42734	28.75314	213.55976	21.32789	8.83789	0.00017428	17.04020

T1 = 500.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.43429	2.30261	1.48535	3.42019	1.21037	0.19092	0.83262576	1.02435
1000.00	0.33287	3.00422	1.81781	5.45954	1.36022	0.48016	0.62722346	1.19891
1200.00	0.27626	3.61975	2.20695	7.96683	1.53883	0.85886	0.43667166	1.41465
1400.00	0.24183	4.14880	2.63787	10.94401	1.74787	1.27282	0.29468512	1.66677
1600.00	0.21739	4.60005	3.12883	14.39276	1.98805	1.70529	0.19474200	1.95160
1800.00	0.20046	4.98355	3.67454	18.31240	2.25969	2.14237	0.12603832	2.27222
2000.00	0.18835	5.30935	4.27596	22.70255	2.56293	2.57563	0.08449129	2.62644
2200.00	0.17911	5.58326	4.93364	27.56587	2.89780	3.00055	0.05620323	3.01525
2400.00	0.17182	5.82002	5.64863	32.87515	3.26451	3.41316	0.03783055	3.43756
2600.00	0.16600	6.02396	6.42147	38.68265	3.66303	3.81230	0.02579472	3.89252
2800.00	0.16137	6.19703	7.25247	44.94374	4.09331	4.19766	0.01781888	4.38399
3000.00	0.15754	6.34765	8.14224	51.68486	4.55544	4.56915	0.01247891	4.90864
3200.00	0.15441	6.47615	9.09193	58.87425	5.04935	4.92667	0.00885368	5.47035
3400.00	0.15177	6.58881	10.10198	66.54028	5.57512	5.27101	0.00636402	6.06630
3600.00	0.14953	6.68766	11.16658	74.67823	6.13275	5.60216	0.00463172	6.69715
3800.00	0.14764	6.77344	12.29581	83.27132	6.72219	5.92117	0.00341058	7.36416
4000.00	0.14600	6.84942	13.48891	92.33830	7.34349	6.22840	0.00253989	8.06619
4200.00	0.14458	6.91646	14.72794	101.86542	7.99664	6.52458	0.00191165	8.80393
4400.00	0.14335	6.97612	16.03500	111.86265	8.68164	6.81025	0.00145337	9.57696
4600.00	0.14227	7.02901	17.40232	122.32117	9.39849	7.08607	0.00111545	10.38602
4800.00	0.14131	7.07650	18.82974	133.24894	10.14719	7.35252	0.00086383	11.23043
5000.00	0.14047	7.11899	20.31748	144.63996	10.92775	7.61016	0.00067465	12.11067
5200.00	0.13972	7.15729	21.86550	156.49783	11.74016	7.85947	0.00053113	13.02652
5400.00	0.13905	7.19180	23.47385	168.81932	12.58442	8.10092	0.00042130	13.97825
5600.00	0.13844	7.22310	25.14259	181.60739	13.46054	8.33492	0.00033658	14.96563
5800.00	0.13790	7.25149	26.87173	194.86009	14.36851	8.56189	0.00027072	15.98880
6000.00	0.13741	7.27741	28.66130	208.58016	15.30835	8.78219	0.00021914	17.04758

T1 = 500.00 ALPHA = 0.30

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.44312	2.25672	1.47781	3.33591	1.16082	0.18178	0.84287643	1.02601
1000.00	0.33951	2.94545	1.80474	5.32757	1.27664	0.47127	0.84200972	1.20012
1200.00	0.28174	3.54942	2.19102	7.77684	1.41452	0.83927	0.85421071	1.41553
1400.00	0.24540	4.06836	2.62440	10.68519	1.57568	1.24940	0.86886417	1.66748
1600.00	0.22178	4.50889	3.11558	14.04783	1.76109	1.67902	0.20621292	1.95371
1800.00	0.20453	4.88679	3.65961	17.88375	1.97066	2.11299	0.13711647	2.27256
2000.00	0.19208	5.20610	4.25903	22.17292	2.20453	2.54386	0.09143873	2.62685
2200.00	0.18256	5.47767	4.91474	26.92130	2.46294	2.96615	0.06147162	3.01444
2400.00	0.17524	5.70641	5.62732	32.11145	2.74573	3.37736	0.04175645	3.43838
2600.00	0.16931	5.90624	6.39773	37.78651	3.05313	3.77476	0.02873790	3.89356
2800.00	0.16460	6.07539	7.22612	43.90151	3.38500	4.15877	0.02002762	4.38565
3000.00	0.16071	6.22220	8.11309	50.48126	3.74144	4.52868	0.01414375	4.91112
3200.00	0.15749	6.34973	9.05895	57.52182	4.12244	4.88479	0.01011900	5.47163
3400.00	0.15480	6.45976	10.06387	65.01018	4.52797	5.22768	0.00733003	6.06804
3600.00	0.15253	6.55627	11.12817	72.95929	4.95807	5.55768	0.00537452	6.69935
3800.00	0.15060	6.64009	12.25192	81.35382	5.41271	5.87555	0.00398589	7.36691
4000.00	0.14893	6.71443	13.43539	90.21094	5.89192	6.18171	0.00298881	8.06932
4200.00	0.14749	6.78009	14.67862	99.52234	6.39570	6.47685	0.00226446	8.80739
4400.00	0.14623	6.83851	15.98175	109.29131	6.92405	6.76154	0.00173262	9.58076
4600.00	0.14513	6.89045	17.34483	119.51372	7.47697	7.03640	0.00133800	10.38994
4800.00	0.14416	6.93670	18.76790	130.18737	8.05445	7.30198	0.00104231	11.23512
5000.00	0.14330	6.97847	20.25109	141.32163	8.65650	7.55875	0.00081873	12.11549
5200.00	0.14253	7.01590	21.79458	152.90725	9.28312	7.80724	0.00064813	13.03190
5400.00	0.14185	7.04960	23.39782	164.94537	9.93431	8.04790	0.00051686	13.98422
5600.00	0.14124	7.08031	25.06148	177.44362	10.61007	8.28113	0.00041508	14.97190
5800.00	0.14068	7.10808	26.78534	190.39234	11.31039	8.50736	0.00033554	15.99563
6000.00	0.14019	7.13332	28.56945	203.79150	12.03529	8.72696	0.00027294	17.05525

T1 = 500.00 ALPHA = 0.40

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.45135	2.21265	1.47826	3.25315	1.12966	0.17298	0.85258349	1.02771
1000.00	0.34613	2.88911	1.80019	5.20004	1.22409	0.45470	0.95633863	1.20126
1200.00	0.28721	3.48180	2.14109	7.59446	1.33634	0.82008	0.96948645	1.41642
1400.00	0.25056	3.99109	2.51493	10.43642	1.46768	1.22638	0.92279942	1.66820
1600.00	0.22548	4.42513	2.92053	13.72907	1.61848	1.65244	0.81793702	1.95394
1800.00	0.20660	4.79388	3.34465	17.47201	1.78900	2.08403	0.68630114	2.27295
2000.00	0.19151	5.10698	4.24211	21.66437	1.97934	2.51250	0.54861559	2.62728
2200.00	0.18015	5.37202	4.89566	26.29957	2.18954	2.93287	0.40693039	3.01619
2400.00	0.17054	5.59794	5.48405	31.38213	2.41964	3.34189	0.26590332	3.43879
2600.00	0.17281	5.79342	6.37402	36.92740	2.66974	3.73760	0.13167090	3.89441
2800.00	0.16782	5.95864	7.19569	42.90287	2.93982	4.12007	0.02239979	4.38685
3000.00	0.16386	6.10270	8.08401	49.33427	3.22984	4.48456	0.01594842	4.91270
3200.00	0.16059	6.22701	9.02489	56.21051	3.53986	4.84333	0.01149846	5.47407
3400.00	0.15785	6.33532	10.02474	63.53535	3.86989	5.18486	0.00839238	6.07021
3600.00	0.15553	6.42969	11.08474	71.30356	4.21975	5.51367	0.00619757	6.70192
3800.00	0.15356	6.51204	12.21096	79.51234	4.58967	5.83457	0.00462818	7.36954
4000.00	0.15186	6.58514	13.38691	88.17441	4.97968	6.13540	0.00349358	8.07188
4200.00	0.15039	6.64943	14.62433	97.27670	5.38950	6.42951	0.00266380	8.81023
4400.00	0.14912	6.70621	15.92442	106.81930	5.81934	6.71328	0.00205056	9.58462
4600.00	0.14799	6.75722	17.28733	116.81422	6.26926	6.98719	0.00159293	10.39397
4800.00	0.14700	6.80262	18.70407	127.25026	6.73913	7.25186	0.00124801	11.23933
5000.00	0.14613	6.84321	20.18469	138.12846	7.22898	7.50781	0.00098567	12.12070
5200.00	0.14535	6.88000	21.72926	149.45016	7.73883	7.75545	0.00078446	13.03726
5400.00	0.14465	6.91307	23.32781	161.22540	8.26867	7.99532	0.00062882	13.98990
5600.00	0.14403	6.94294	24.98036	173.43721	8.81850	8.22781	0.00050749	14.97848
5800.00	0.14347	6.97021	26.69197	186.09732	9.38832	8.45329	0.00041223	16.00254
6000.00	0.14296	6.99497	28.47263	199.20001	9.97813	8.67217	0.00033690	17.06256

T1 = 500.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.46077	2.17026	1.46269	3.17442	1.10824	0.16450	0.86177078	1.02946
1000.00	0.35274	2.83499	1.79164	5.07927	1.18800	0.44248	0.67020861	1.20237
1200.00	0.29258	3.41668	2.17116	7.41816	1.28270	0.80131	0.48448215	1.41734
1400.00	0.25586	3.91604	2.60743	10.19515	1.39339	1.20393	0.33662485	1.66924
1600.00	0.23027	4.34277	3.08939	13.41652	1.52051	1.62662	0.22968260	1.95501
1800.00	0.21205	4.70246	3.62959	17.06807	1.66420	2.05587	0.15578853	2.27449
2000.00	0.19960	5.01013	4.22512	21.16844	1.82463	2.48184	0.10598195	2.62864
2200.00	0.18966	5.27269	4.87469	25.71329	2.00182	2.89962	0.07263491	3.01653
2400.00	0.18179	5.49476	5.58485	30.68744	2.19577	3.30665	0.05026681	3.43847
2600.00	0.17590	5.68513	6.35533	36.10243	2.40653	3.70084	0.03519325	3.89515
2800.00	0.17143	5.84686	7.17749	41.94254	2.63409	4.08179	0.02493661	4.38798
3000.00	0.16699	5.98839	8.05497	48.23629	2.87851	4.44866	0.01769549	4.91375
3200.00	0.16367	6.10995	8.99491	54.95843	3.13974	4.80215	0.01299887	5.47558
3400.00	0.16069	6.21550	9.99961	62.11526	3.41780	5.14249	0.00955511	6.07254
3600.00	0.15853	6.30795	11.05133	69.71121	3.71271	5.47009	0.00710501	6.70449
3800.00	0.15652	6.38889	12.16220	77.74127	4.02445	5.78501	0.00534124	7.37216
4000.00	0.15479	6.46030	13.34439	86.20477	4.35305	6.08959	0.00405743	8.07510
4200.00	0.15330	6.52316	14.57999	95.10155	4.69848	6.38270	0.00311266	8.81396
4400.00	0.15200	6.57907	15.87511	104.44341	5.06075	6.66545	0.00241033	9.58833
4600.00	0.15085	6.62906	17.22985	114.21771	5.43983	6.93842	0.00188307	10.39801
4800.00	0.14985	6.67339	18.64420	124.41909	5.83584	7.20222	0.00148339	11.24403
5000.00	0.14896	6.71332	20.11830	135.06051	6.24866	7.45726	0.00117782	12.12547
5200.00	0.14817	6.74921	21.65214	146.13493	6.67831	7.70412	0.00094217	13.04277
5400.00	0.14746	6.78168	23.24580	157.64563	7.12482	7.94318	0.00075899	13.99570
5600.00	0.14682	6.81104	24.89927	169.59005	7.58817	8.17489	0.00061550	14.98453
5800.00	0.14625	6.83759	26.61259	181.96595	8.06837	8.39966	0.00050228	16.00946
6000.00	0.14573	6.86190	28.38581	194.78056	8.56541	8.61782	0.00041235	17.06985

T1 = 500.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.46980	2.12948	1.45812	3.09864	1.09269	0.15634	0.87046132	1.03124
1000.00	0.35984	2.78292	1.78309	4.96220	1.16165	0.42862	0.66361955	1.20346
1200.00	0.29815	3.35396	2.16124	7.24874	1.24354	0.78292	0.49919448	1.41828
1400.00	0.26086	3.84521	2.59202	9.96687	1.33923	1.18155	0.35046429	1.66960
1600.00	0.23461	4.26240	3.07421	13.11200	1.44905	1.60144	0.24144862	1.95568
1800.00	0.21652	4.61860	3.61475	16.69511	1.57324	2.02733	0.16545941	2.27388
2000.00	0.20325	4.91995	4.20830	20.70462	1.71184	2.45103	0.11360593	2.62830
2200.00	0.19320	5.17602	4.85768	25.14342	1.86491	2.86697	0.07854195	3.01752
2400.00	0.18545	5.39231	5.56549	30.00089	2.03245	3.27236	0.05481113	3.44036
2600.00	0.17922	5.57969	6.32658	35.30034	2.21455	3.66470	0.03869615	3.89681
2800.00	0.17424	5.73913	7.14719	41.01655	2.41115	4.04392	0.02763882	4.38913
3000.00	0.17012	5.87807	8.02593	47.17636	2.62231	4.40429	0.01998530	4.91507
3200.00	0.16675	5.99704	8.96291	53.75098	2.84799	4.76144	0.01462156	5.47717
3400.00	0.16391	6.10100	9.95855	60.75715	3.08822	5.10042	0.01082323	6.07396
3600.00	0.16152	6.19101	11.01293	68.18119	3.34299	5.42691	0.00810082	6.70681
3800.00	0.15948	6.27036	12.12635	76.03655	3.61231	5.74129	0.00612875	7.37478
4000.00	0.15772	6.34026	13.29940	84.31842	3.89615	6.04420	0.00468417	8.07815
4200.00	0.15620	6.40209	14.53270	93.02675	4.19461	6.33425	0.00361478	8.81701
4400.00	0.15487	6.45698	15.82683	102.16120	4.50759	6.61601	0.00281511	9.59153
4600.00	0.15371	6.50560	17.17236	111.71649	4.83511	6.89009	0.00221124	10.40218
4800.00	0.15269	6.54911	18.58038	121.69806	5.17716	7.15299	0.00175113	11.24849
5000.00	0.15179	6.58820	20.05191	132.10590	5.53381	7.40720	0.00139749	12.13043
5200.00	0.15098	6.62338	21.58804	142.93952	5.90500	7.65322	0.00112341	13.04814
5400.00	0.15026	6.65526	23.18980	154.20107	6.29074	7.89147	0.00090932	14.00140
5600.00	0.14961	6.68393	24.85817	165.88286	6.69103	8.12244	0.00074081	14.99094
5800.00	0.14903	6.71005	26.59424	177.99231	7.10585	8.34645	0.00060726	16.01608
6000.00	0.14850	6.73378	28.39900	190.52570	7.53523	8.56391	0.00050069	17.07718

T1 = 500.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.47842	2.09020	1.44753	3.02564	1.08063	0.14849	0.87567722	1.03306
1000.00	0.36543	2.73274	1.77455	4.84939	1.14159	0.41512	0.69657260	1.20457
1200.00	0.30350	3.29385	2.15134	7.08617	1.21372	0.76485	0.51364943	1.41908
1400.00	0.26400	3.77646	2.58159	9.74549	1.29799	1.15966	0.36417125	1.67021
1600.00	0.23642	4.18722	3.06315	12.82607	1.39465	1.57617	0.25336867	1.95529
1800.00	0.22047	4.53586	3.59482	16.32829	1.50395	1.99957	0.17522086	2.27439
2000.00	0.20713	4.83031	4.19134	20.24540	1.62592	2.42115	0.12136816	2.62965
2200.00	0.19677	5.08216	4.83464	24.59066	1.76064	2.83487	0.08464502	3.01845
2400.00	0.18879	5.29697	5.54933	29.35769	1.90812	3.23790	0.05958546	3.43992
2600.00	0.18254	5.47823	6.30264	34.52841	2.06834	3.62896	0.04238441	3.89843
2800.00	0.17745	5.63531	7.12090	40.12644	2.24137	4.00847	0.03050674	4.39034
3000.00	0.17328	5.77113	7.99484	46.15084	2.42720	4.37045	0.02221822	4.91702
3200.00	0.16984	5.88766	8.93197	52.58386	2.62581	4.72122	0.01636869	5.47916
3400.00	0.16695	5.98964	9.92441	59.43766	2.83722	5.05494	0.01219719	6.07641
3600.00	0.16450	6.07889	10.97460	66.71342	3.06144	5.38407	0.00918896	6.70850
3800.00	0.16244	6.15626	12.08451	74.39537	3.29845	5.69738	0.00699433	7.37723
4000.00	0.16065	6.22473	13.25342	82.49865	3.54827	5.99922	0.00537727	8.08099
4200.00	0.15910	6.28545	14.48141	91.02215	3.81090	6.29022	0.00417329	8.82007
4400.00	0.15776	6.33891	15.76852	99.95516	4.08632	6.57105	0.00326769	9.59547
4600.00	0.15657	6.38672	17.11466	109.30766	4.37454	6.84219	0.00258033	10.40628
4800.00	0.15553	6.42947	18.52054	119.07726	4.67560	7.10418	0.00205385	11.25281
5000.00	0.15461	6.46782	19.98555	129.26280	4.98945	7.35753	0.00164714	12.13511
5200.00	0.15379	6.50235	21.50996	139.86530	5.31611	7.60271	0.00133039	13.05315
5400.00	0.15306	6.53340	23.09379	150.88101	5.65557	7.84021	0.00108178	14.00728
5600.00	0.15240	6.56156	24.73710	162.31396	6.00785	8.07039	0.00088524	14.99713
5800.00	0.15181	6.58712	26.43989	174.16277	6.37293	8.29368	0.00072877	16.02288
6000.00	0.15128	6.61041	28.20220	186.42819	6.75082	8.51042	0.00060340	17.08442

T1 = 500.00 ALPHA = 0.80

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.48725	2.05235	1.45964	2.95557	1.07129	0.14894	0.88643995	1.03656
1000.00	0.37253	2.68433	1.76600	4.74053	1.12579	0.40197	0.70906995	1.20570
1200.00	0.30913	3.23596	2.04145	6.92960	1.19024	0.74711	0.52782203	1.41983
1400.00	0.26953	3.71021	2.56816	9.53219	1.26549	1.13819	0.37776807	1.67081
1600.00	0.24379	4.11376	3.05805	12.54717	1.35163	1.55150	0.26527728	1.95549
1800.00	0.22491	4.45614	3.56493	15.97485	1.44941	1.97220	0.18511250	2.27494
2000.00	0.21058	4.74659	4.17753	19.81476	1.55832	2.39115	0.12936538	2.62942
2200.00	0.20027	4.99327	4.81170	24.06685	1.67859	2.80207	0.09096704	3.01842
2400.00	0.19274	5.20180	5.52298	28.71980	1.81023	3.20444	0.06452463	3.44187
2600.00	0.18585	5.38082	6.27913	33.78642	1.95323	3.59356	0.04625797	3.89977
2800.00	0.18066	5.53523	7.09462	39.27031	2.10776	3.96944	0.03354041	4.39157
3000.00	0.17642	5.66833	7.96779	45.16482	2.27365	4.33197	0.02459846	4.91854
3200.00	0.17291	5.78320	8.89993	51.46430	2.45095	4.68132	0.01824500	5.48058
3400.00	0.16998	5.88316	9.88135	58.17480	2.63971	5.01773	0.01368308	6.07792
3600.00	0.16750	5.96998	10.93519	65.28687	2.83965	5.34178	0.01037094	6.71123
3800.00	0.16539	6.04649	12.04271	72.81607	3.05145	5.65365	0.00794150	7.37938
4000.00	0.16357	6.11343	13.20796	80.74581	3.27446	5.95465	0.00614005	8.08373
4200.00	0.16200	6.17261	14.43211	89.08646	3.50893	6.24465	0.00479127	8.82344
4400.00	0.16063	6.22552	15.71525	97.83556	3.75481	6.52447	0.00377150	9.59873
4600.00	0.15943	6.27234	17.05743	106.99006	4.01213	6.79467	0.00299328	10.40999
4800.00	0.15837	6.31422	18.45873	116.55249	4.28084	7.05577	0.00239421	11.25698
5000.00	0.15744	6.35179	19.91920	126.52267	4.56105	7.30827	0.00192918	12.13974
5200.00	0.15660	6.38553	21.43888	136.89854	4.85268	7.55265	0.00156530	13.05846
5400.00	0.15586	6.41601	23.01781	147.68258	5.15573	7.78935	0.00127844	14.01296
5600.00	0.15519	6.44367	24.65603	158.87533	5.47021	8.01876	0.00105066	15.00318
5800.00	0.15459	6.46871	26.35356	170.47354	5.79613	8.24132	0.00086856	16.02944
6000.00	0.15405	6.49158	28.11042	182.48100	6.13348	8.45734	0.00072203	17.09141

T1 = 500.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.49[illegible]7	2.01584	1.43[illegible]34	2.88736	1.06367	0.13368	0.89376993	1.03851
1000.00	0.37914	2.63754	1.75745	4.63532	1.11302	0.38019	0.72111456	1.20687
1200.00	0.31445	3.18020	2.13157	6.77885	1.17124	0.72973	0.54170259	1.42056
1400.00	0.27425	3.64626	2.55775	9.32627	1.23925	1.11707	0.39123735	1.67142
1600.00	0.24735	4.04290	3.03596	12.27818	1.31724	1.52722	0.27720326	1.95577
1800.00	0.22685	4.37932	3.57800	15.63417	1.40537	1.94520	0.19512050	2.27547
2000.00	0.21440	4.66416	4.15764	19.39100	1.50371	2.36187	0.13749294	2.63026
2200.00	0.20383	4.90602	4.80067	23.55221	1.61232	2.77157	0.09745507	3.01944
2400.00	0.19584	5.11156	5.49974	28.11222	1.73120	3.17108	0.06966957	3.44271
2600.00	0.18912	5.28755	6.25547	33.07614	1.86037	3.55844	0.05031740	3.90058
2800.00	0.18356	5.43877	7.06[illegible]35	38.44349	1.99986	3.93279	0.03673972	4.39276
3000.00	0.17955	5.56933	7.93[illegible]75	44.21350	2.14966	4.29307	0.02712681	4.91988
3200.00	0.17598	5.68257	8.86701	50.38730	2.30975	4.64176	0.02025218	5.48168
3400.00	0.173[illegible]0	5.78020	9.85[illegible]28	56.95396	2.48021	4.97698	0.01528162	6.07974
3600.00	0.17049	5.86560	1[illegible].[illegible]766	63.92253	2.66094	5.29978	0.01165186	6.71306
3800.00	0.16834	5.94042	12.00[illegible]90	71.29040	2.85200	5.61075	0.00897303	7.38179
4000.00	0.16650	6.00016	13.16251	79.05614	3.05338	5.91047	0.00697574	8.08637
4200.00	0.16490	6.06426	14.38284	87.22144	3.26509	6.19947	0.00547204	8.82657
4400.00	0.16351	6.11601	15.66198	95.78879	3.48712	6.47830	0.00432929	9.60222
4600.00	0.16229	6.16180	16.99998	104.75170	3.71945	6.74759	0.00345278	10.41396
4800.00	0.16121	6.20306	18.39693	114.11739	3.96214	7.00778	0.00277485	11.26112
5000.00	0.16026	6.23985	19.85286	123.87884	4.21514	7.25943	0.00224608	12.14441
5200.00	0.15942	6.27291	21.36781	134.03837	4.47846	7.50299	0.00183047	13.06363
5400.00	0.15866	6.30289	22.94185	144.60004	4.75210	7.73868	0.00150141	14.01838
5600.00	0.15798	6.32999	24.57499	155.55942	5.03607	7.96754	0.00123901	15.00913
5800.00	0.15737	6.35451	26.26723	166.91539	5.33037	8.18936	0.00102836	16.03597
6000.00	0.15682	6.37690	28.01864	178.67210	5.63499	8.40465	0.00085619	17.09852

T1 = 500.00 ALPHA = 1.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.59490	1.98061	1.42673	2.82183	1.05741	0.12672	0.90068676	1.04048
1000.00	0.38576	2.59226	1.74069	4.53359	1.1[illegible]24[illegible]	0.37676	0.73271004	1.20811
1200.00	0.31986	3.12637	2.12170	6.63322	1.15564	0.71270	0.55528289	1.42128
1400.00	0.27697	3.58459	2.54634	9.12748	1.21762	1.09633	0.40456693	1.67204
1600.00	0.25150	3.97454	3.02[illegible]89	12.01850	1.28871	1.50331	0.28913346	1.95609
1800.00	0.23268	4.30339	3.52499	15.29634	1.36903	1.91899	0.20515795	2.27711
2000.00	0.21618	4.58546	4.14[illegible]61	18.98755	1.45870	2.33260	0.14579602	2.63060
2200.00	0.20252	4.82341	4.78[illegible]76	23.06436	1.55769	2.74033	0.10414935	3.01942
2400.00	0.19097	5.02594	5.47[illegible]61	27.53547	1.66605	3.13783	0.07501755	3.44245
2600.00	0.18096	5.19860	6.23[illegible]91	32.39723	1.78379	3.52350	0.05456425	3.90052
2800.00	0.17196	5.34586	7.04210	37.64625	1.91091	3.89651	0.04010455	4.39379
3000.00	0.16289	5.47386	7.90[illegible]73	43.29[illegible]2	2.04743	4.25615	0.02980369	4.92114
3200.00	0.17915	5.58519	8.83[illegible]07	49.34553	2.19337	4.60265	0.02239022	5.48307
3400.00	0.17604	5.68056	9.81[illegible]19	55.77277	2.34869	4.93667	0.01699491	6.08188
3600.00	0.17348	5.76443	10.85[illegible]43	62.59[illegible]1	2.51342	5.25626	0.01303273	6.71538
3800.00	0.17160	5.83785	11.95[illegible]07	69.81520	2.68756	5.56810	0.01009175	7.38449
4000.00	0.16941	5.90279	13.11709	77.42740	2.87111	5.86666	0.00788750	8.08877
4200.00	0.16780	5.95960	14.33358	85.42244	3.06406	6.15468	0.00621859	8.82961
4400.00	0.16658	6.01024	15.60[illegible]71	93.81210	3.26641	6.43256	0.00494400	9.60582
4600.00	0.16514	6.05547	16.94256	102.59522	3.47818	6.70087	0.00396181	10.41752
4800.00	0.16405	6.09562	18.33512	111.76992	3.69935	6.96021	0.00319835	11.26558
5000.00	0.16308	6.13179	19.78852	121.32869	3.92994	7.21100	0.00260031	12.14912
5200.00	0.16223	6.16427	21.29475	131.27898	4.16993	7.45373	0.00212819	13.06866
5400.00	0.16146	6.19365	22.86589	141.62337	4.41934	7.68883	0.00175280	14.02394
5600.00	0.16077	6.22017	24.49393	152.35689	4.67815	7.91674	0.00145222	15.01531
5800.00	0.16015	6.24428	26.18092	163.48[illegible]9	4.94638	8.13782	0.00120999	16.04249
6000.00	0.15959	6.26624	27.92[illegible]88	174.99651	5.22401	8.35243	0.00101356	17.10558

T1 = 550.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.44038	2.27076	1.43941	3.26856	1.46363	0.16801	0.84534757	0.96679
1000.00	0.33414	2.99277	1.74449	5.21787	1.79837	0.44350	0.54178910	1.13983
1200.00	0.27510	3.63507	2.09600	7.61184	2.19627	0.79837	0.45006386	1.33463
1400.00	0.23647	4.19332	2.49308	10.45420	2.66130	1.19733	0.30199939	1.55997
1600.00	0.21401	4.67041	2.94152	13.73866	3.19523	1.61809	0.19827623	1.81921
1800.00	0.19647	5.07947	3.44026	17.47468	3.79697	2.04561	0.12930191	2.10975
2000.00	0.18412	5.43125	3.99110	21.67129	4.47295	2.47087	0.08451158	2.42969
2200.00	0.17484	5.72593	4.59144	26.29029	5.21709	2.88981	0.05558660	2.78389
2400.00	0.16715	5.98278	5.24534	31.38170	6.03195	3.29753	0.03697446	3.16523
2600.00	0.16126	6.20120	5.95205	36.90981	6.91734	3.69333	0.02468905	3.57944
2800.00	0.15653	6.38875	6.71208	42.86182	7.87327	4.07607	0.01697401	4.02533
3000.00	0.15256	6.55051	7.52581	49.29789	8.89990	4.44544	0.01173191	4.50304
3200.00	0.14945	6.69110	8.39354	56.16217	9.99725	4.80144	0.00821787	5.01228
3400.00	0.14677	6.81342	9.31555	63.47840	11.16531	5.14445	0.00583167	5.55330
3600.00	0.14450	6.92061	10.29201	71.22695	12.40411	5.47467	0.00419077	6.12619
3800.00	0.14257	7.01400	11.32302	79.41976	13.71360	5.79335	0.00304775	6.73195
4000.00	0.14091	7.09672	12.40880	88.06176	15.09387	6.10031	0.00224216	7.36946
4200.00	0.13947	7.16980	13.54941	97.14668	16.54489	6.39640	0.00166755	8.03939
4400.00	0.13822	7.23461	14.74494	106.67391	18.06663	6.68218	0.00125305	8.74169
4600.00	0.13713	7.29259	15.99549	116.64653	19.65916	6.95816	0.00095085	9.47607
4800.00	0.13616	7.34421	17.30108	127.06276	21.32241	7.22493	0.00072820	10.24320
5000.00	0.13531	7.39068	18.66179	137.92341	23.05645	7.48296	0.00056259	11.04249
5200.00	0.13454	7.43248	20.07766	149.22676	24.86125	7.73273	0.00043825	11.87430
5400.00	0.13386	7.47023	21.54872	160.97340	26.73681	7.97468	0.00034406	12.73854
5600.00	0.13325	7.50446	23.07500	173.16576	28.68314	8.20924	0.00027213	13.63516
5800.00	0.13271	7.53551	24.65652	185.79939	30.70023	8.43681	0.00021674	14.56439
6000.00	0.13221	7.56376	26.29330	198.87612	32.78809	8.65775	0.00017377	15.52616

T1 = 550.00 ALPHA = 0.10

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.44906	2.22293	1.43232	3.18304	1.27697	0.15923	0.85561926	0.98916
1000.00	0.34124	2.93051	1.75561	5.08621	1.47939	0.42887	0.65705201	1.14208
1200.00	0.28046	3.56044	2.08500	7.42353	1.71966	0.77879	0.46642594	1.33542
1400.00	0.24346	4.10744	2.48273	10.19748	2.00039	1.17374	0.31681627	1.56165
1600.00	0.21847	4.57719	2.92977	13.41010	2.32269	1.59072	0.21060375	1.81935
1800.00	0.20087	4.97835	3.42190	17.06031	2.68697	2.01530	0.13896179	2.10984
2000.00	0.18799	5.31945	3.97485	21.14480	3.09359	2.43861	0.09180396	2.43139
2200.00	0.17823	5.61087	4.57439	25.66631	3.54259	2.85490	0.06106613	2.78392
2400.00	0.17065	5.85994	5.22414	30.62487	4.03415	3.26098	0.04103070	3.16695
2600.00	0.16464	6.07373	5.93165	36.02116	4.56830	3.65497	0.02789611	3.58137
2800.00	0.15980	6.25784	6.68935	41.85459	5.14507	4.03599	0.01920868	4.02702
3000.00	0.15586	6.41619	7.49957	48.11865	5.76445	4.40383	0.01339846	4.50505
3200.00	0.15257	6.55419	8.36668	54.82374	6.42651	4.75536	0.00946534	5.01408
3400.00	0.14985	6.67344	9.28583	61.95508	7.13119	5.10010	0.00677532	5.55582
3600.00	0.14753	6.77826	10.25729	69.52065	7.87857	5.42929	0.00490826	6.12897
3800.00	0.14556	6.86995	11.28518	77.52063	8.66861	5.74456	0.00359741	6.73475
4000.00	0.14387	6.95074	12.36764	85.96427	9.50132	6.05244	0.00266626	7.37272
4200.00	0.14240	7.02236	13.50479	94.83557	10.37673	6.34746	0.00199724	8.04279
4400.00	0.14113	7.08586	14.69670	104.13699	11.29481	6.63222	0.00151119	8.74532
4600.00	0.14001	7.14225	15.94342	113.87190	12.25557	6.90730	0.00115433	9.48054
4800.00	0.13903	7.19286	17.24506	124.04171	13.25903	7.17315	0.00088974	10.24785
5000.00	0.13815	7.23833	18.60165	134.64662	14.30519	7.43030	0.00069167	11.04759
5200.00	0.13738	7.27924	20.01322	145.68680	15.39403	7.67923	0.00054204	11.87978
5400.00	0.13668	7.31617	21.47982	157.15204	16.52556	7.92038	0.00042802	12.74445
5600.00	0.13606	7.34963	23.00148	169.05239	17.69978	8.15417	0.00034043	13.64160
5800.00	0.13550	7.38000	24.57821	181.38786	18.91670	8.38099	0.00027263	14.57128
6000.00	0.13500	7.40768	26.21005	194.15857	20.17632	8.60121	0.00021974	15.53342

T1 = 550.00 ALPHA = 0.20

UNJ	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.459[illegible]4	2.17706	1.42[illegible]19	3.10275	1.19622	0.15079	0.86530395	0.99152
1000.00	0.346[illegible]9	2.87115	1.72774	4.96065[illegible]	1.34144	0.41456	0.97184165	1.14412
1200.00	0.286[illegible]2	3.48884[illegible]	2.07[illegible]00	7.24294	1.51358	0.75961	0.98249532	1.33628
1400.00	0.246[illegible]3	4.02521	2.47[illegible]89	9.95191	1.71464	1.15055	0.99158843	1.56324
1600.00	0.222[illegible]3	4.48566	2.91794	13.08899	1.94531	1.56416	0.99297726	1.82045
1800.00	0.205[illegible]8	4.87624	3.41334	16.64427	2.20604	1.98431	0.99371910	2.11237
2000.00	0.19179	5.21405	3.95767	20.64562	2.49713	2.40649	0.99937754	2.43217
2200.00	0.181[illegible]9	5.49791	4.55724	25.05529	2.81848	2.82083	0.99978031	2.78540
2400.00	0.17416	5.74197	5.20[illegible]94	29.8[illegible]61	3.17031	3.22490	0.99994941	3.16875
2600.00	0.168[illegible]2	5.95180	5.90[illegible]26	35.17[illegible]6	3.55262	3.61702	0.99998002	3.58308
2800.00	0.163[illegible]9	6.13170	6.66[illegible]59	40.86526	3.96541[illegible]	3.99644	0.99998760	4.02912
3000.00	0.159[illegible]4	6.28779	7.47[illegible]36	46.99001	4.40872	4.36200	0.99998376	4.50668
3200.00	0.15572	6.42193	8.33[illegible]75	53.53159	4.[illegible]8253	4.71585	0.99999046	5.01656
3400.00	0.152[illegible]2	6.53916	9.25[illegible]10	60.50097	5.38688[illegible]	5.05[illegible]21	0.99999045	5.55823
3600.00	0.15056	6.64183	10.22[illegible]39	67.89666[illegible]	5.92174[illegible]	5.36415	0.99999939	6.13162
3800.00	0.14856	6.73144	11.24[illegible]32	75.71072[illegible]	6.48723[illegible]	5.70027	0.99999570	6.73787
4000.00	0.14683	6.81064	12.32[illegible]49	83.95126[illegible]	7.08317	6.00503	0.99999694	7.37602
4200.00	0.14553	6.88081	13.46[illegible]17	92.61[illegible]49	7.70969	6.29899	0.99999358	8.04631
4400.00	0.144[illegible]3	6.94302	14.[illegible]4[illegible]45	101.70440	8.36678[illegible]	6.58276	0.99999787	8.74915
4600.00	0.142[illegible]9	6.99830	15.89138	111.[illegible]1249	9.05437	6.85606	0.99999981	9.48458
4800.00	0.14159	7.04778	17.18[illegible]05	121.1447[illegible]	9.77253[illegible]	7.12381	0.99999785	10.25235
5000.00	0.141[illegible]0	7.09222	18.54151	131.50054	10.52125	7.37810	0.99999289	11.05254
5200.00	0.14021	7.13236	19.94[illegible]81	142.28214	11.30053[illegible]	7.62[illegible]18	0.99999436	11.88495
5400.00	0.13950	7.16839	21.41[illegible]94	153.48201	12.11035	7.86[illegible]55	0.99999753	12.75027
5600.00	0.13[illegible]7	7.20114	22.92797	165.10745	12.95073	8.09956	0.99999185	13.64785
5800.00	0.13829	7.23092	24.49[illegible]92	177.15[illegible]6	13.82167	8.32563	0.99999960	14.57786
6000.00	0.13778	7.25796	26.12[illegible]60	189.62754	14.72316	8.54512	0.99999511	15.54054

T1 = 550.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.46652	2.13302	1.41405	3.02475	1.15113	0.14270	0.87442937	0.99388
1000.00	0.35543	2.81427	1.71467	4.84016	1.26445	0.40059	0.66612773	1.14608
1200.00	0.29258	3.42017	2.06490	7.06949	1.39857	0.74085	0.49625339	1.33722
1400.00	0.25340	3.94628	2.46205	9.71596	1.55514	1.12775	0.34628584	1.56480
1600.00	0.22739	4.39782	2.90012	12.78057	1.73475	1.53803	0.23544751	1.82160
1800.00	0.20916	4.78336	3.40000	16.26549	1.93760	1.95663	0.15680561	2.11240
2000.00	0.19571	5.10963	3.94436	20.15421	2.16432	2.37536	0.10713602	2.43463
2200.00	0.18546	5.39212	4.54021	24.48139	2.41455	2.78676	0.07276723	2.78542
2400.00	0.17746	5.62687	5.18775	29.20119	2.68837	3.18924	0.04963919	3.17046
2600.00	0.17138	5.83495	5.88769	34.35550	2.98597	3.57947	0.03453066	3.58465
2800.00	0.16636	6.01115	6.64467	39.91923	3.30725	3.95725	0.02420626	4.03082
3000.00	0.16224	6.16353	7.44710	45.90042	3.65234	4.32197	0.01717838	4.50864
3200.00	0.15883	6.29623	8.30490	52.30210	4.02113	4.67362	0.01234173	5.01793
3400.00	0.15599	6.41050	9.22040	59.10732	4.41375	5.01273	0.00897195	5.56030
3600.00	0.15359	6.51098	10.18790	66.33316	4.83010	5.33944	0.00659879	6.13411
3800.00	0.15154	6.59871	11.20949	73.96614	5.27021	5.65440	0.00490726	6.74064
4000.00	0.14978	6.67632	12.28534	82.02086	5.73411	5.95805	0.00366840	7.37904
4200.00	0.14826	6.74476	13.41854	90.48466	6.22177	6.25100	0.00280027	8.04998
4400.00	0.14693	6.80590	14.60920	99.36758	6.73323	6.53373	0.00214653	8.75286
4600.00	0.14577	6.86005	15.85934	108.65863	7.26845	6.80689	0.00166029	9.48860
4800.00	0.14475	6.90846	17.13305	118.36295	7.82745	7.07094	0.00129525	10.25683
5000.00	0.14384	6.95200	18.48138	128.48241	8.41024	7.32635	0.00101870	11.05733
5200.00	0.14304	6.99116	19.88437	139.01515	9.01681	7.57361	0.00080736	11.89037
5400.00	0.14232	7.02655	21.34206	149.96116	9.64716	7.81316	0.00064453	12.75592
5600.00	0.14167	7.05861	22.85447	161.32045	10.30129	8.04540	0.00051808	13.65395
5800.00	0.14109	7.08773	24.42163	173.09301	10.97921	8.27073	0.00041916	14.58450
6000.00	0.14056	7.11418	26.04354	185.27882	11.68091	8.48951	0.00034122	15.54776

T1 = 550.00 ALPHA = 0.40

UN1	U2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.47651	2.09071	1.41184	2.94974	1.12235	0.13493	0.98302228	0.99625
1000.00	0.36206	2.75967	1.71199	4.72456	1.21533	0.38499	0.99991094	1.14749
1200.00	0.29815	3.35406	2.05797	6.90254	1.32521	0.72250	0.91368413	1.33826
1400.00	0.25637	3.87038	2.45170	9.48904	1.45340	1.10543	0.86888299	1.56637
1600.00	0.23153	4.31348	2.89429	12.48447	1.60045	1.51230	0.84799647	1.82272
1800.00	0.21314	4.69166	3.38455	15.86854	1.76663	1.92822	0.83900610	2.11367
2000.00	0.19945	5.01391	3.92525	19.70089	1.95206	2.34385	0.83520655	2.43467
2200.00	0.18917	5.28615	4.52298	23.90915	2.15673	2.75385	0.83394144	2.78795
2400.00	0.18114	5.52073	5.16958	28.53432	2.38091	3.15393	0.83358929	3.17165
2600.00	0.17474	5.72287	5.86453	33.57339	2.62447	3.54234	0.83345756	3.58610
2800.00	0.16952	5.89556	6.61715	39.01182	2.88742	3.91547	0.83342565	4.03234
3000.00	0.16542	6.04510	7.42689	44.86004	3.16982	4.26163	0.83341929981	4.51024
3200.00	0.16197	6.17409	8.27797	51.10898	3.47165	4.63202	0.83341397175	5.02049
3400.00	0.15905	6.28719	9.18571	57.77126	3.79294	4.96965	0.83341023429	5.56205
3600.00	0.15661	6.38543	10.15122	64.85269	4.13366	5.29515	0.83340758090	6.13640
3800.00	0.15453	6.47120	11.17165	72.29485	4.49383	5.60897	0.83340567624	6.74329
4000.00	0.15274	6.54728	12.24421	80.16631	4.87347	5.91150	0.83340429459	7.38193
4200.00	0.15119	6.61438	13.37094	88.44043	5.27256	6.20340	0.83340328125	8.05318
4400.00	0.14984	6.67395	14.55194	97.11694	5.69111	6.48519	0.83340253051	8.75677
4600.00	0.14865	6.72707	15.78730	106.20227	6.12912	6.75738	0.83340196886	9.49277
4800.00	0.14761	6.77457	17.07705	115.68972	6.58659	7.02051	0.83340154474	10.26124
5000.00	0.14669	6.81719	18.42125	125.58117	7.06352	7.27505	0.83340122160	11.06219
5200.00	0.14587	6.85556	19.81996	135.87736	7.55991	7.52148	0.83340097332	11.89561
5400.00	0.14513	6.89024	21.27318	146.57734	8.07577	7.76022	0.83340078102	12.76155
5600.00	0.14448	6.92157	22.78096	157.68006	8.61109	7.99170	0.83340063092	13.66017
5800.00	0.14388	6.95015	24.34334	169.18977	9.16587	8.21627	0.83340051292	14.59105
6000.00	0.14335	6.97609	25.96031	181.10132	9.74011	8.43432	0.83340041950	15.55469

T1 = 550.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.48760	2.05002	1.40368	2.87788	1.10236	0.12748	0.89110830	0.99862
1000.00	0.36939	2.70717	1.70410	4.61329	1.15124	0.37375	0.71319351	1.14866
1200.00	0.30428	3.28865	2.04883	6.73767	1.27424	0.70499	0.52857487	1.34021
1400.00	0.26344	3.79741	2.44136	9.27082	1.38283	1.08347	0.37536626	1.56762
1600.00	0.23627	4.23236	2.85546	12.19962	1.50729	1.48498	0.26059840	1.82388
1800.00	0.21723	4.60346	3.37810	15.52706	1.64791	1.90004	0.17936652	2.11494
2000.00	0.20327	4.91962	3.91404	19.25567	1.80482	2.31316	0.12344756	2.43592
2200.00	0.19277	5.18753	4.50590	23.37451	1.97805	2.72080	0.08538422	2.78858
2400.00	0.18458	5.41769	5.14446	27.89819	2.16778	3.11888	0.05957013	3.17264
2600.00	0.17808	5.61535	5.84519	32.82276	2.37377	3.50558	0.04199005	3.58728
2800.00	0.17288	5.78443	6.59545	38.13936	2.59525	3.88010	0.02992611	4.03384
3000.00	0.16859	5.93158	7.39472	43.86230	2.83520	4.24166	0.02157961	4.51135
3200.00	0.16517	6.05806	8.24913	49.97371	3.09058	4.59064	0.01573910	5.02179
3400.00	0.16214	6.16760	9.15097	56.47656	3.36239	4.92715	0.01160944	5.56479
3600.00	0.15964	6.26416	10.11451	63.38394	3.65068	5.25137	0.00865904	6.13916
3800.00	0.15762	6.34854	11.13782	70.66348	3.95547	5.56396	0.00652664	6.74599
4000.00	0.15589	6.42289	12.20705	78.37682	4.27663	5.86544	0.00496922	7.38518
4200.00	0.15411	6.48868	13.32832	86.47047	4.61429	6.15629	0.00381993	8.05673
4400.00	0.15274	6.54709	14.50369	94.95706	4.96842	6.43707	0.00296330	8.76061
4600.00	0.15153	6.59928	15.73528	103.84145	5.33902	6.70830	0.00231872	9.49677
4800.00	0.15047	6.64572	17.02304	113.11769	5.72607	6.97053	0.00182917	10.26577
5000.00	0.14953	6.68751	18.36712	122.79011	6.12959	7.22420	0.00145419	11.06709
5200.00	0.14869	6.72520	19.75554	132.85901	6.54959	7.46978	0.00116456	11.90077
5400.00	0.14795	6.75909	21.20431	143.32179	6.98604	7.70773	0.00093910	12.76727
5600.00	0.14728	6.78985	22.70747	154.18034	7.43897	7.93843	0.00076226	13.66617
5800.00	0.14668	6.81775	24.26504	165.43288	7.90836	8.16227	0.00062257	14.59775
6000.00	0.14613	6.84323	25.87707	177.08260	8.39422	8.37959	0.00051148	15.56171

T1 = 550.00 ALPHA = 0.50

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.49750	2.01086	1.39[illegible]	2.80610	1.08765	0.12034	0.59671195	1.00100
1000.00	0.37642	2.65661	1.[illegible]	4.50614	1.15620	0.36087	0.72597851	1.14991
1200.00	0.30956	3.22937	2.[illegible]	6.58764	1.23692	0.68[illegible]95	0.54357161	1.34272
1400.00	0.26629	3.72731	2.43101	9.06114	1.33101	1.06188	0.38972903	1.56824
1600.00	0.24071	4.15429	2.87764	11.92547	1.43884	1.46207	0.27323447	1.82504
1800.00	0.22141	4.51864	3.35[illegible]6	15.18[illegible]6	1.56074	1.87225	0.18967068	2.11618
2000.00	0.20[illegible]9	4.82892	3.89[illegible]3	18.82714	1.69970	2.28288	0.13188815	2.43714
2200.00	0.19634	5.09332	4.48[illegible]7	22.86327	1.84663	2.68803	0.09205816	2.78881
2400.00	0.18[illegible]3	5.31830	5.13[illegible]4	27.28469	2.01115	3.08428	0.06476668	3.17356
2600.00	0.18141	5.51228	5.82[illegible]8	32.10287	2.18970	3.46918	0.04602757	3.58790
2800.00	0.17[illegible]4	5.67742	6.56[illegible]4	37.29916	2.38245	3.84218	0.03305743	4.03540
3000.00	0.17179	5.82098	7.36[illegible]6	42.89187	2.58949	4.20234	0.02401412	4.51359
3200.00	0.16621	5.94506	8.22[illegible]1	48.86967	2.81075	4.54989	0.01764098	5.02428
3400.00	0.16519	6.05357	9.12[illegible]0	55.24061	3.04629	4.88491	0.01310416	5.56647
3600.00	0.16[illegible]7	6.14752	10.08[illegible]1	61.99044	3.29505	5.20[illegible]1	0.00963764	6.14177
3800.00	0.16050	6.23042	11.09[illegible]9	69.13264	3.56013	5.51943	0.00746232	6.74875
4000.00	0.15[illegible]5	6.30333	12.16192	76.66051	3.83841	5.81979	0.00571637	7.38822
4200.00	0.157[illegible]3	6.36813	13.28174	84.57981	4.13097	6.10954	0.00442030	8.05965
4400.00	0.155[illegible]4	6.42527	14.45[illegible]7	92.88031	4.43781	6.38935	0.00344841	8.76404
4600.00	0.15441	6.47636	15.68[illegible]4	101.57029	4.75884	6.65963	0.00271302	9.50065
4800.00	0.15333	6.52178	16.96[illegible]5	110.64236	5.09429	6.92097	0.00215147	10.27016
5000.00	0.15238	6.56275	18.30100	120.10494	5.44387	7.17377	0.00171913	11.07184
5200.00	0.15152	6.59958	19.69112	129.95316	5.80777	7.41853	0.00138351	11.90612
5400.00	0.15076	6.63293	21.13[illegible]4	140.18982	6.18593	7.65566	0.00112097	12.77280
5600.00	0.150[illegible]8	6.66300	22.63[illegible]7	150.81026	6.57835	7.88560	0.00091407	13.67231
5800.00	0.14947	6.69038	24.18[illegible]6	161.81865	6.98505	8.10869	0.00074990	14.60426
6000.00	0.14891	6.71534	25.79[illegible]3	173.21424	7.40601	8.32529	0.00061877	15.56873

TJ = 550.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.5064	1.97315	1.38422	2.74114	1.07640	0.11351	0.90565670	1.00338
1000.00	0.3854	2.60784	1.68824	4.40277	1.13701	0.34837	0.73827025	1.15123
1200.00	0.3153	3.17069	2.03190	6.43934	1.20834	0.66969	0.55604025	1.34390
1400.00	0.2732	3.65983	2.42067	8.85925	1.29133	1.04067	0.40394808	1.56891
1600.00	0.2451	4.07920	2.85582	11.66169	1.38651	1.43753	0.28589056	1.82617
1800.00	0.2255	4.43671	3.34020	14.84611	1.49403	1.84490	0.20049050	2.11754
2000.00	0.2108	4.74157	3.88163	18.41456	1.61394	2.25299	0.14651345	2.43837
2200.00	0.2000	5.00002	4.47170	22.35869	1.74635	2.65615	0.09890252	2.79062
2400.00	0.1914	5.22268	5.11123	26.69429	1.89131	3.05008	0.07017602	3.17408
2600.00	0.1847	5.41140	5.80247	31.39951	2.04877	3.43347	0.05025240	3.56972
2800.00	0.1794	5.57423	6.54803	36.48911	2.21881	3.80466	0.03636899	4.03697
3000.00	0.1748	5.71484	7.34222	41.95986	2.40143	4.16337	0.02660998	4.51551
3200.00	0.1713	5.83676	8.19133	47.81077	2.59657	4.50948	0.01968401	5.02630
3400.00	0.1686	5.94280	9.09456	54.04121	2.80431	4.84325	0.01471814	5.56911
3600.00	0.1658	6.03564	10.04914	60.65306	3.02461	5.16500	0.01112084	6.14390
3800.00	0.1634	6.11667	11.05514	67.63916	3.25750	5.47530	0.00848703	6.75148
4000.00	0.1614	6.18822	12.12078	75.00669	3.50295	5.77454	0.00653965	7.39119
4200.00	0.1599	6.25159	13.23712	82.75380	3.76104	6.06326	0.00508543	8.06316
4400.00	0.1585	6.30767	14.40723	90.87599	4.03168	6.34209	0.00398896	8.76786
4600.00	0.1572	6.35773	15.63519	99.37848	4.31485	6.61143	0.00315479	9.50468
4800.00	0.1561	6.40243	16.92006	108.25916	4.61062	6.87184	0.00251455	10.27449
5000.00	0.1552	6.44269	18.24190	117.52054	4.91899	7.12376	0.00201912	11.07636
5200.00	0.1543	6.47882	19.62672	127.15762	5.23995	7.36768	0.00163263	11.91103
5400.00	0.1535	6.51141	21.06658	137.17326	5.57348	7.60402	0.00132887	12.77830
5600.00	0.1528	6.54086	22.56248	147.56539	5.91960	7.83319	0.00108841	13.67830
5800.00	0.1522	6.56772	24.10648	158.33764	6.27831	8.05553	0.00089677	14.61070
6000.00	0.1517	6.59214	25.71058	169.48773	6.64960	8.27143	0.00074304	15.57575

T1 = 550.00 ALPHA = 0.90

UN1	U=2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.51642	1.93679	1.38195	2.67655	1.06748	0.10698	0.91256486	1.00579
1000.00	0.39051	2.56073	1.68135	4.30291	1.12184	0.33624	0.75007351	1.15266
1200.00	0.32111	3.11416	2.02168	6.29640	1.18567	0.65278	0.57217532	1.34506
1400.00	0.27618	3.59476	2.41733	8.66454	1.25997	1.01985	0.41800557	1.56966
1600.00	0.24967	4.00684	2.84701	11.40745	1.34511	1.41337	0.29254456	1.82731
1800.00	0.22945	4.35824	3.33277	14.52508	1.44127	1.81785	0.21123557	2.11863
2000.00	0.21471	4.65743	3.86143	18.01698	1.54854	2.22350	0.14961051	2.43656
2200.00	0.20357	4.91228	4.45466	21.88257	1.66698	2.62425	0.10596228	2.79108
2400.00	0.19444	5.12979	5.09207	26.12130	1.79661	3.01641	0.07578205	3.17506
2600.00	0.18617	5.31426	5.78107	30.72292	1.93742	3.39815	0.05467264	3.59148
2800.00	0.18256	5.47470	6.52332	35.70775	2.08950	3.76761	0.03985986	4.03843
3000.00	0.17817	5.61275	7.31801	41.06210	2.25274	4.12477	0.02936769	4.51727
3200.00	0.17443	5.73256	8.16248	46.79455	2.42734	4.46939	0.02187069	5.02783
3400.00	0.17132	5.83715	9.06192	52.89570	2.61312	4.80181	0.01645839	5.57059
3600.00	0.16870	5.92759	10.01446	59.36154	2.81014	5.12244	0.01251098	6.14626
3800.00	0.16647	6.00719	11.02134	66.20120	3.01841	5.43156	0.00960442	6.75403
4000.00	0.16455	6.07730	12.07966	73.41168	3.23792	5.72971	0.00744254	7.39413
4200.00	0.16288	6.13937	13.19252	80.99376	3.46869	6.01742	0.00581907	8.06650
4400.00	0.16143	6.19471	14.35902	88.95006	3.71072	6.29518	0.00458661	8.77103
4600.00	0.16017	6.24356	15.57916	97.26943	3.96399	6.56302	0.00364730	9.50877
4800.00	0.15909	6.28744	16.85307	105.96261	4.22851	6.82311	0.00292134	10.27872
5000.00	0.15815	6.32693	18.18179	115.02869	4.50429	7.07416	0.00235685	11.08095
5200.00	0.15738	6.36222	19.56631	124.45967	4.79131	7.31726	0.00191436	11.91630
5400.00	0.15669	6.39421	20.99771	134.26373	5.08959	7.55281	0.00156509	12.78396
5600.00	0.15609	6.42319	22.48700	144.43836	5.39913	7.78119	0.00128739	13.68419
5800.00	0.15555	6.44954	24.03522	154.98376	5.71992	8.00279	0.00106512	14.61699
6000.00	0.15508	6.47352	25.62737	165.89933	6.05196	8.21796	0.00088608	15.58242

T1 = 550.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.52563	1.90249	1.37477	2.61549	1.06025	0.10046	0.91905210	1.00769
1000.00	0.39759	2.51515	1.67739	4.20631	1.10454	0.32450	0.76139348	1.15421
1200.00	0.32674	3.05964	2.01185	6.15861	1.16733	0.63823	0.58596970	1.34622
1400.00	0.28318	3.53131	2.39693	8.47493	1.23455	0.99957	0.43182814	1.57080
1600.00	0.25465	3.93618	2.83512	11.15957	1.31155	1.38480	0.31112664	1.82890
1800.00	0.23351	4.28235	3.31434	14.21469	1.39854	1.79122	0.22206454	2.11927
2000.00	0.21691	4.57426	3.83911	17.62519	1.49553	2.19482	0.15820767	2.44142
2200.00	0.20718	4.82662	4.43757	21.41849	1.60265	2.59295	0.11323310	2.79222
2400.00	0.19641	5.03997	5.07791	25.56735	1.71985	2.98319	0.08158226	3.17624
2600.00	0.19153	5.22117	5.75571	30.07248	1.84722	3.36313	0.05928899	3.59285
2800.00	0.18592	5.37870	6.49761	34.95405	1.98474	3.73095	0.04352898	4.03991
3000.00	0.18134	5.51437	7.25980	40.19665	2.13241	4.08457	0.03228732	4.51894
3200.00	0.17754	5.63261	8.13764	45.81341	2.29025	4.42972	0.02420098	5.02940
3400.00	0.17439	5.73411	9.03118	51.78811	2.45823	4.76097	0.01832219	5.57327
3600.00	0.17172	5.82331	9.97278	58.11540	2.63637	5.08029	0.01401120	6.14869
3800.00	0.16944	5.90192	10.95256	64.81320	2.82473	5.38616	0.01081806	6.75616
4000.00	0.16749	5.97035	12.13854	71.87429	3.02323	5.68529	0.00842840	7.39698
4200.00	0.16580	6.03123	13.14793	79.29810	3.23198	5.97196	0.00662452	8.06972
4400.00	0.16433	6.08532	14.31178	87.08564	3.45075	6.24876	0.00525008	8.77487
4600.00	0.16304	6.13353	15.52715	95.23634	3.67977	6.51620	0.00419363	9.51250
4800.00	0.16190	6.17664	16.79411	103.74969	3.91897	6.77478	0.00337480	10.28270
5000.00	0.16089	6.21520	18.12069	112.62519	4.16834	7.02498	0.00273504	11.08553
5200.00	0.16000	6.24988	19.49791	121.85977	4.42786	7.26726	0.00223135	11.92129
5400.00	0.15920	6.28138	20.92687	131.46221	4.69761	7.50198	0.00183203	12.78912
5600.00	0.15848	6.30976	22.41153	141.42367	4.97751	7.72960	0.00151317	13.68990
5800.00	0.15784	6.33554	23.95195	151.74850	5.26758	7.95046	0.00125691	14.62329
6000.00	0.15726	6.35900	25.54414	162.43515	5.56783	8.16492	0.00104969	15.58937

T1 = 550.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/-1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.53510	1.86682	1.36749	2.55560	1.05427	0.09445	0.92500297	1.00998
1000.00	0.40470	2.47099	1.66440	4.11271	1.09935	0.31313	0.77223569	1.15747
1200.00	0.33256	3.00698	2.00383	6.02547	1.15217	0.62004	0.59941747	1.34739
1400.00	0.28606	3.47146	2.33264	8.29554	1.21355	0.97930	0.44559701	1.57129
1600.00	0.25642	3.86973	2.62566	10.92586	1.28385	1.36619	0.32378286	1.82957
1800.00	0.23757	4.20744	3.30560	13.90696	1.36021	1.76537	0.23269250	2.12086
2000.00	0.22252	4.49804	3.33405	17.26369	1.45175	2.16567	0.15736295	2.44091
2200.00	0.21079	4.74400	4.42647	20.97071	1.55495	2.56202	0.12066295	2.79333
2400.00	0.20136	4.95385	5.05379	25.03568	1.65647	2.95424	0.08758023	3.17706
2600.00	0.19405	5.13224	5.73441	29.45094	1.77267	3.32433	0.06410212	3.59352
2800.00	0.18917	5.28617	6.47490	34.22744	1.89815	3.69406	0.04737530	4.04132
3000.00	0.18452	5.41947	7.25760	39.36482	2.03291	4.04475	0.03534655	4.52059
3200.00	0.18086	5.53517	8.13474	44.86114	2.17692	4.39057	0.02667363	5.03151
3400.00	0.17746	5.63519	9.09450	50.70621	2.33021	4.72345	0.02031561	5.57528
3600.00	0.17474	5.72288	9.94412	56.91479	2.49279	5.03851	0.01562468	6.15089
3800.00	0.17243	5.79953	10.94471	63.47419	2.66468	5.34531	0.01212914	6.75920
4000.00	0.17044	5.86724	11.99743	70.39186	2.84587	5.64124	0.00950048	7.39963
4200.00	0.16872	5.92686	13.10334	77.66191	3.03617	5.92689	0.00750494	8.07288
4400.00	0.16723	5.97993	14.26356	85.28912	3.23565	6.20271	0.00597688	8.77839
4600.00	0.16591	6.02725	15.47814	93.27254	3.44484	6.46920	0.00479669	9.51639
4800.00	0.16476	6.06947	16.74112	101.60970	3.66311	6.72689	0.00387762	10.28710
5000.00	0.16373	6.10744	18.06153	110.30383	3.89065	6.97622	0.00315638	11.09024
5200.00	0.16283	6.14150	19.43352	119.35091	4.12748	7.21765	0.00258607	11.92619
5400.00	0.16201	6.17227	20.86000	128.75356	4.37361	7.45159	0.00213196	12.79473
5600.00	0.16129	6.20016	22.34405	138.51103	4.62903	7.67843	0.00176792	13.69586
5800.00	0.16063	6.22549	23.87369	148.62543	4.89369	7.89854	0.00147420	14.62962
6000.00	0.16004	6.24853	25.46092	159.09330	5.16760	8.11226	0.00123576	15.59610

T* = 600.00 ALPHA = 0.

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.46408	2.15482	1.38[illegible]	2.99144	1.41255	0.13452	0.87413585	0.95806
1000.00	0.34880	2.86700	1.66761	4.78102	1.72159	0.38214	0.96240014	1.09589
1200.00	0.28494	3.50955	1.9[illegible]	6.97866	2.08696	0.71188	0.49071961	1.27038
1400.00	0.24552	4.07301	2.35[illegible]	9.58610	2.51315	1.08963	0.33033936	1.47664
1600.00	0.21929	4.56009	2.76[illegible]	12.60432	3.00199	1.49240	0.22483138	1.71168
1800.00	0.20041	4.97727	3.22[illegible]	16.03086	3.55463	1.90550	0.14874615	1.97646
2000.00	0.18741	5.33603	3.72418	19.87234	4.17073	2.31904	0.09536837	2.26966
2200.00	0.17765	5.63665	4.27507	24.10562	4.85117	2.72609	0.06534425	2.59281
2400.00	0.16958	5.90369	4.87426	28.77759	5.59629	3.12759	0.04383206	2.94220
2600.00	0.16318	6.12809	5.52185	33.83836	6.40057[illegible]	3.51639	0.02970641	3.32199
2800.00	0.15814	6.32334	6.21[illegible]47	39.32149	7.27976	3.89306	0.02038285	3.72964
3000.00	0.15409	6.48989	6.96425	45.19721	8.21827	4.25755	0.01415698	4.16758
3200.00	0.15070	6.63559	7.75[illegible]62	51.48942	9.22147	4.60926	0.00995915	4.63414
3400.00	0.14786	6.76297	8.60475	58.19370	10.28931	4.94852	0.00709391	5.12968
3600.00	0.14548	6.87375	9.49[illegible]7	65.29982	11.42176	5.27561	0.00511381	5.65528
3800.00	0.14345	6.97117	10.44[illegible]	72.81200	12.61887	5.59147	0.00372955	6.21009
4000.00	0.14171	7.05688	11.44[illegible]11	80.73146	13.88062	5.89604	0.00275033	6.79472
4200.00	0.14019	7.13294	12.48[illegible]	89.05939	15.20706	6.18996	0.00204987	7.40869
4400.00	0.13888	7.20061	13.58[illegible]	97.79551	16.59819	6.47365	0.00154328	8.05223
4600.00	0.13772	7.26088	14.72788	106.93745	18.05396	6.74817	0.00117303	8.72550
4800.00	0.13671	7.31476	15.92468	116.48517	19.57442	7.01344	0.00089971	9.42853
5000.00	0.13581	7.36308	17.17199	126.43879	21.15956	7.27014	0.00069601	10.16136
5200.00	0.13501	7.40668	18.46986	136.80036	22.80939	7.51872	0.00054283	10.92381
5400.00	0.13430	7.44615	19.81834	147.57034	24.52392	7.75959	0.00042663	11.71587
5600.00	0.13366	7.48179	21.21742	158.74417	26.30311	7.99318	0.00033776	12.53790
5800.00	0.13308	7.51425	22.66715	170.32670	28.14701	8.21986	0.00026925	13.38955
6000.00	0.13256	7.54371	24.16754	182.31780	30.05554	8.44000	0.00021605	14.27122

T0 = 600.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.47419	2.10888	1.38148	2.91337	1.25462	0.12471	0.88330440	0.96059
1000.00	0.35625	2.80699	1.86031	4.66046	1.44811	0.36838	0.69715387	1.09784
1200.00	0.29097	3.43674	1.98123	6.80555	1.67651	0.69313	0.50724080	1.27199
1400.00	0.25070	3.98888	2.54417	9.35040	1.94275	1.06672	0.35182212	1.47810
1600.00	0.22340	4.46625	2.75331	12.29697	2.24805	1.46597	0.23797204	1.71343
1800.00	0.20529	4.87590	3.20148	15.64421	2.59301	1.87590	0.15928745	1.97719
2000.00	0.19149	5.22467	3.71132	19.38595	2.97781	2.28722	0.10647458	2.27156
2200.00	0.18103	5.52360	4.25756	23.52896	3.40273	2.69357	0.07151992	2.59398
2400.00	0.17242	5.78289	4.85464	28.06867	3.86794	3.09090	0.04846640	2.94347
2600.00	0.16582	6.00184	5.50142	33.02483	4.37324	3.47812	0.03317081	3.32379
2800.00	0.16109	6.19221	6.19765	38.37216	4.91897	3.85320	0.02297406	3.73233
3000.00	0.15781	6.35700	6.94141	44.12026	5.50497	4.21587	0.01610617	4.16922
3200.00	0.15585	6.49977	7.73435	50.26497	6.13132	4.56612	0.01142966	4.63589
3400.00	0.15078	6.62361	8.57584	56.80312	6.79791	4.90413	0.00820873	5.13229
3600.00	0.14654	6.73203	9.46614	63.73980	7.50501	5.23115	0.00596511	5.65815
3800.00	0.14667	6.82736	10.41435	71.07544	8.25234	5.54462	0.00438406	6.21323
4000.00	0.14468	6.91173	11.40969	78.81174	9.04010	5.84500	0.00325724	6.79767
4200.00	0.14314	6.98597	12.44695	86.94816	9.86829	6.14290	0.00244499	7.41220
4400.00	0.14190	7.05218	13.53033	95.48645	10.73688	6.42376	0.00185345	8.05603
4600.00	0.14093	7.11100	14.66134	104.39209	11.64586	6.69713	0.00141612	8.72986
4800.00	0.13959	7.16380	15.83752	113.71442	12.59495	6.96147	0.00109469	9.43318
5000.00	0.13867	7.21114	17.11706	123.43365	13.58454	7.21729	0.00085210	10.16628
5200.00	0.13776	7.25386	18.41100	133.55113	14.61463	7.46500	0.00066856	10.92900
5400.00	0.13713	7.29241	19.75568	144.06436	15.68505	7.70507	0.00052849	11.72161
5600.00	0.13648	7.32728	21.15123	154.97365	16.79585	7.93789	0.00042075	12.54407
5800.00	0.13589	7.35902	22.59557	166.26110	17.94704	8.16381	0.00033724	13.39622
6000.00	0.13536	7.38791	24.09142	177.96522	19.13862	8.38322	0.00027203	14.27820

T1 = 600.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.48431	2.06481	1.37267	2.83863	1.18283	0.11924	0.89190111	0.96315
1000.00	0.36370	2.74953	1.65299	4.54496	1.32384	0.35496	0.71136220	1.09973
1200.00	0.29701	3.36689	1.97197	6.63942	1.49001	0.67478	0.52340520	1.27360
1400.00	0.25587	3.90826	2.33475	9.12479	1.68363	1.04422	0.36720154	1.47952
1600.00	0.22856	4.37513	2.74252	11.99896	1.90559	1.44017	0.25114601	1.71521
1800.00	0.20934	4.77696	3.19424	15.26828	2.15626	1.84703	0.16997988	1.97875
2000.00	0.19526	5.12134	3.69457	18.93139	2.43591	2.25534	0.11488624	2.27201
2200.00	0.18468	5.41486	4.24411	22.98195	2.74472	2.65930	0.07797446	2.59450
2400.00	0.17650	5.66565	4.83941	27.41841	3.08271	3.05505	0.05334036	2.94543
2600.00	0.17004	5.88097	5.48293	32.24530	3.44994	3.44028	0.03665890	3.32548
2800.00	0.16482	6.06732	6.17526	37.46730	3.84645	3.81366	0.02576110	3.73420
3000.00	0.16055	6.22862	6.91453	43.08040	4.27229	4.17476	0.01821763	4.17152
3200.00	0.15703	6.36819	7.70701	49.07975	4.72741	4.52361	0.01303623	4.63864
3400.00	0.15409	6.48985	8.54695	55.46866	5.21185	4.86021	0.00943840	5.13496
3600.00	0.15160	6.59624	9.43453	62.24549	5.72561	5.18494	0.00691186	5.66082
3800.00	0.14949	6.68950	10.37564	69.41026	6.26869	5.49821	0.00511757	6.21621
4000.00	0.14767	6.77195	11.36505	76.96354	6.84111	5.80050	0.00382922	6.80119
4200.00	0.14609	6.84514	12.40726	84.90588	7.44286	6.09227	0.00289427	7.41547
4400.00	0.14472	6.90971	13.49849	93.23610	8.07395	6.37414	0.00220547	8.05991
4600.00	0.14352	6.96757	14.63985	101.95539	8.73440	6.64651	0.00170060	8.73372
4800.00	0.14247	7.01902	15.82737	111.05755	9.42417	6.90997	0.00132078	9.43770
5000.00	0.14153	7.06540	17.06213	120.55060	10.14329	7.16489	0.00103421	10.17114
5200.00	0.14070	7.10723	18.35214	130.43286	10.89175	7.41176	0.00081610	10.93425
5400.00	0.13996	7.14490	19.69243	140.70051	11.66955	7.65102	0.00064871	11.72733
5600.00	0.13929	7.17909	21.08304	151.35706	12.47671	7.88305	0.00051925	12.55012
5800.00	0.13869	7.21022	22.52400	162.40316	13.31321	8.10821	0.00041836	13.40255
6000.00	0.13815	7.23846	24.01531	173.83374	14.17905	8.32690	0.00033918	14.28508

T1 = 600.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.49444	2.02250	1.36782	2.76642	1.14178	0.11210	0.89995542	0.96575
1000.00	0.37114	2.69442	1.64566	4.43412	1.25282	0.34195	0.72502812	1.10159
1200.00	0.30345	3.29976	1.96170	6.47976	1.38344	0.55466	0.53919753	1.27523
1400.00	0.26104	3.83083	2.32831	8.90787	1.53552	1.02215	0.38244903	1.48094
1600.00	0.23311	4.28976	2.73481	11.71863	1.70961	1.41439	0.26447675	1.71613
1800.00	0.21391	4.68357	3.18406	14.91274	1.90667	1.81831	0.18069762	1.97960
2000.00	0.19919	5.02043	3.68176	18.48904	2.12629	2.22415	0.12350784	2.27324
2200.00	0.18658	5.30850	4.22458	22.44710	2.36875	2.62575	0.08466224	2.59596
2400.00	0.18048	5.55313	4.82196	26.77604	2.63409	3.01963	0.05545681	2.94739
2600.00	0.17346	5.76503	5.46756	31.49757	2.92242	3.40286	0.04076921	3.32712
2800.00	0.16813	5.94788	6.15978	36.60144	3.23374	3.77450	0.02774477	3.73577
3000.00	0.16378	6.10556	6.89965	42.08846	3.56805	4.13411	0.02049759	4.17365
3200.00	0.16019	6.24270	7.68772	47.94839	3.92537	4.48143	0.01478645	4.64071
3400.00	0.15719	6.36161	8.51505	54.18856	4.30569	4.81672	0.01078787	5.13745
3600.00	0.15456	6.46594	9.40249	60.81156	4.70903	5.14016	0.00795879	5.66340
3800.00	0.15250	6.55750	10.34135	67.81343	5.13541	5.45223	0.00593478	6.21898
4000.00	0.15054	6.63832	11.32754	75.19548	5.58481	5.75337	0.00447120	6.80406
4200.00	0.14914	6.70950	12.36253	82.95316	6.05723	6.04414	0.00340155	7.41919
4400.00	0.14784	6.77302	13.44945	91.09334	6.55269	6.32496	0.00261213	8.06365
4600.00	0.14642	6.82951	14.58833	99.61050	7.07118	6.59640	0.00202370	8.73802
4800.00	0.14534	6.88010	15.77124	108.50900	7.61271	6.85889	0.00158106	9.44193
5000.00	0.14439	6.92549	17.00720	117.78816	8.17727	7.11295	0.00124507	10.17592
5200.00	0.14355	6.96639	18.29527	127.43807	8.76487	7.35898	0.00098791	10.93951
5400.00	0.14279	7.00343	19.62949	137.47380	9.37551	7.59741	0.00078950	11.73273
5600.00	0.14211	7.03663	21.01586	147.88496	10.00918	7.82867	0.00063520	12.55606
5800.00	0.14150	7.06725	22.45242	158.67689	10.66591	8.05309	0.00051435	13.40906
6000.00	0.14095	7.09496	23.93919	169.84754	11.34566	8.27103	0.00041904	14.29190

T1 = 600.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.50456	1.98185	1.36193	2.69716	1.11515	0.10528	0.96749533	0.96973
1000.00	0.37858	2.64147	1.65831	4.32759	1.20864	0.32928	0.73815596	1.10345
1200.00	0.30920	3.23411	1.95564	6.32377	1.31444	0.63962	0.55447869	1.27737
1400.00	0.26650	3.75516	2.31581	8.69629	1.43967	1.00076	0.39744631	1.48291
1600.00	0.23771	4.20676	2.72106	11.44683	1.58317	1.36922	0.27779774	1.71712
1800.00	0.21779	4.59161	3.17177	14.56353	1.74518	1.79043	0.19190060	1.98154
2000.00	0.20321	4.92099	3.66564	18.05429	1.92594	2.19364	0.13229536	2.27575
2200.00	0.19219	5.20601	4.21303	21.93365	2.12544	2.59268	0.09158646	2.59743
2400.00	0.18364	5.44539	4.80451	26.16244	2.34384	2.96459	0.06361349	2.94915
2600.00	0.17687	5.65371	5.44414	30.77960	2.58111	3.36586	0.04406990	3.32871
2800.00	0.17143	5.83326	6.13314	35.77037	2.83730	3.73576	0.03192508	3.73725
3000.00	0.16699	5.98823	6.86762	41.13276	3.11241	4.09374	0.02295037	4.17512
3200.00	0.16335	6.12172	7.65548	46.85811	3.40643	4.43974	0.01668177	4.64307
3400.00	0.16028	6.23891	8.48619	52.96329	3.71941	4.77359	0.01226206	5.13948
3600.00	0.15771	6.34087	9.37128	59.43473	4.05131	5.09581	0.00911046	5.66585
3800.00	0.15551	6.43057	10.30485	66.27892	4.40217	5.40669	0.00684003	6.22174
4000.00	0.15362	6.50946	11.28699	73.49171	4.77195	5.70675	0.00518691	6.80742
4200.00	0.15199	6.57939	12.32262	81.07667	5.16072	5.99643	0.00397114	7.42260
4400.00	0.15056	6.64173	13.40542	89.03515	5.56843	6.27623	0.00306817	8.06727
4600.00	0.14932	6.69694	14.53760	97.35877	5.99508	6.54671	0.00239095	8.74216
4800.00	0.14822	6.74651	15.72008	106.05571	6.44069	6.80829	0.00187858	9.44652
5000.00	0.14725	6.79113	16.95228	115.12521	6.90527	7.06144	0.00148753	10.18049
5200.00	0.14639	6.83110	18.23441	124.56106	7.38879	7.30664	0.00118654	10.94463
5400.00	0.14562	6.86731	19.56654	134.36944	7.89127	7.54427	0.00095308	11.73839
5600.00	0.14492	6.90014	20.94868	144.54874	8.41271	7.77473	0.00077064	12.56193
5800.00	0.14430	6.92992	22.38085	155.09742	8.95311	7.99840	0.00062703	13.41541
6000.00	0.14374	6.95707	23.86307	166.01701	9.51245	8.21562	0.00051323	14.29867

T1 = 600.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.51474	1.94275	1.35400	2.63049	1.09654	0.09877	0.91454756	0.97247
1000.00	0.38613	2.59050	1.65194	4.22404	1.17464	0.31700	0.75075106	1.10533
1200.00	0.31514	3.17318	1.94710	6.17848	1.26617	0.62222	0.56966345	1.27849
1400.00	0.27138	3.68487	2.30642	8.49887	1.37261	0.97921	0.41248071	1.48376
1600.00	0.24252	4.12678	2.71128	11.18475	1.49451	1.36450	0.29112452	1.71824
1800.00	0.22142	4.50606	3.15961	14.23740	1.63216	1.76241	0.20313967	1.98211
2000.00	0.20703	4.83029	3.65513	17.65535	1.78567	2.16304	0.14139808	2.27576
2200.00	0.19560	5.10727	4.19747	21.43761	1.95518	2.56007	0.09874308	2.59870
2400.00	0.18718	5.34257	4.78711	25.57540	2.14065	2.94985	0.06940941	2.95045
2600.00	0.18028	5.54683	5.42472	30.08995	2.34219	3.32927	0.04924899	3.33020
2800.00	0.17473	5.72301	6.11158	34.97086	2.55980	3.69745	0.03530130	3.73876
3000.00	0.17023	5.87439	6.84893	40.20985	2.79345	4.05395	0.02557222	4.17734
3200.00	0.16650	6.00603	7.62812	45.81469	3.04319	4.39840	0.01872775	4.64473
3400.00	0.16340	6.12013	8.46028	51.77796	3.30900	4.73102	0.01366263	5.14214
3600.00	0.16075	6.22067	9.34167	58.11142	3.59091	5.05188	0.01037104	5.66822
3800.00	0.15852	6.30840	10.27285	64.80207	3.88890	5.36160	0.00763748	6.22459
4000.00	0.15660	6.38562	11.25245	71.85301	4.20298	5.66055	0.00598081	6.81066
4200.00	0.15494	6.45429	12.28211	79.27239	4.53317	5.94915	0.00460691	7.42598
4400.00	0.15349	6.51517	13.36136	87.05160	4.87945	6.22797	0.00358016	8.07124
4600.00	0.15222	6.56950	14.49029	95.19006	5.24182	6.49746	0.00280580	8.74615
4800.00	0.15110	6.61800	15.66892	103.69781	5.62030	6.75813	0.00221655	9.45094
5000.00	0.15011	6.66168	16.89733	112.56465	6.01487	7.01041	0.00176438	10.18544
5200.00	0.14923	6.70106	18.17555	121.79550	6.42555	7.25473	0.00141459	10.94959
5400.00	0.14845	6.73645	19.50358	131.38497	6.85232	7.49156	0.00114186	11.74391
5600.00	0.14774	6.76861	20.88149	141.33853	7.29520	7.72124	0.00092769	12.56791
5800.00	0.14711	6.79785	22.30927	151.65569	7.75418	7.94415	0.00075832	13.42168
6000.00	0.14653	6.82442	23.78695	162.33217	8.22926	8.16065	0.00062348	14.30546

T1 = 600.00 ALPHA = 0.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.52491	1.90510	1.34704	2.56629	1.08274	0.09257	0.92113742	0.97524
1000.00	0.39349	2.54136	1.62353	4.12599	1.15082	0.30509	0.76261950	1.10725
1200.00	0.32116	3.11367	1.93879	6.03675	1.23046	0.60541	0.58436020	1.28001
1400.00	0.27654	3.61613	2.29497	8.30619	1.32301	0.95832	0.42724332	1.48510
1600.00	0.24691	4.05012	2.69952	10.93336	1.42897	1.34011	0.30446361	1.71926
1800.00	0.22612	4.42236	3.14739	13.91887	1.54860	1.73507	0.21444866	1.98338
2000.00	0.21103	4.73862	3.64121	17.25428	1.68199	2.13349	0.15058335	2.27809
2200.00	0.19950	5.01265	4.18193	20.96253	1.82930	2.52780	0.10612406	2.59977
2400.00	0.19066	5.24490	4.76976	25.01691	1.99048	2.91529	0.07524548	2.95098
2600.00	0.18368	5.44426	5.40531	29.42705	2.16559	3.29304	0.05381463	3.33150
2800.00	0.17804	5.61675	6.08900	34.20041	2.35467	3.65958	0.03887217	3.74038
3000.00	0.17347	5.76472	6.82103	39.32134	2.55764	4.01462	0.02836689	4.17959
3200.00	0.16967	5.89369	7.60177	44.80247	2.77467	4.35763	0.02092268	4.64725
3400.00	0.16649	6.00625	8.43139	50.64165	3.00565	4.68880	0.01559517	5.14431
3600.00	0.16382	6.10437	9.31002	56.83179	3.25059	5.00448	0.01174330	5.67118
3800.00	0.16153	6.19072	10.23764	63.37956	3.50952	5.31696	0.00893109	6.22745
4000.00	0.15958	6.26657	11.21492	70.27906	3.78242	5.61477	0.00685696	6.81367
4200.00	0.15788	6.33400	12.24141	77.53704	4.06932	5.90229	0.00531281	7.42920
4400.00	0.15641	6.39360	13.31732	85.14565	4.37019	6.18011	0.00415199	8.07485
4600.00	0.15511	6.44694	14.44277	93.11171	4.66506	6.44863	0.00327169	8.74999
4800.00	0.15398	6.49447	15.61778	101.42916	5.01391	6.70838	0.00259815	9.45523
5000.00	0.15297	6.53730	16.84241	110.10389	5.35675	6.95978	0.00207865	10.18999
5200.00	0.15207	6.57577	18.11668	119.13190	5.71357	7.20328	0.00167470	10.95479
5400.00	0.15127	6.61055	19.44064	128.51397	6.08437	7.43928	0.00135627	11.74934
5600.00	0.15056	6.64204	20.81431	138.24916	6.46921	7.66819	0.00110858	12.57379
5800.00	0.14991	6.67067	22.23769	148.34024	6.86800	7.89035	0.00091022	13.42807
6000.00	0.14932	6.69681	23.71084	158.78706	7.28079	8.10611	0.00075162	14.31208

T1 = 600.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.53459	1.86954	1.34714	2.50544	1.07212	0.08645	0.92746701	0.97756
1000.00	0.40098	2.49392	1.61610	4.03042	1.13247	0.29357	0.77436791	1.10924
1200.00	0.32718	3.05640	1.93147	5.90029	1.20297	0.58697	0.59868478	1.28151
1400.00	0.28170	3.54992	2.28750	8.12044	1.28484	0.93781	0.44181138	1.48645
1600.00	0.25150	3.97622	2.68474	10.69105	1.37854	1.31614	0.31777463	1.72036
1800.00	0.23062	4.34174	3.13515	13.61286	1.48431	1.70813	0.22565645	1.98467
2000.00	0.21486	4.65427	3.62748	16.88326	1.60226	2.10357	0.16004543	2.27832
2200.00	0.20320	4.92135	4.16637	20.50416	1.73246	2.49598	0.11371045	2.60098
2400.00	0.19424	5.14822	4.75227	24.46574	1.87492	2.88162	0.08126723	2.95315
2600.00	0.18699	5.34798	5.38605	28.80445	2.02977	3.25678	0.05861355	3.33111
2800.00	0.18135	5.51424	6.06742	33.45719	2.19685	3.62216	0.04263597	3.74214
3000.00	0.17670	5.65940	6.79715	38.46779	2.37631	3.97565	0.03133696	4.18146
3200.00	0.17282	5.78627	7.57547	43.83375	2.56812	4.31716	0.02327373	4.64910
3400.00	0.16959	5.89642	8.40248	49.54456	2.77229	4.64703	0.01746150	5.14663
3600.00	0.16687	5.99274	9.27839	55.60298	2.98879	4.96543	0.01323222	5.67376
3800.00	0.16455	6.07734	10.20332	62.00907	3.21765	5.27274	0.01012465	6.23034
4000.00	0.16255	6.15191	11.17739	68.76296	3.45884	5.56941	0.00781909	6.81665
4200.00	0.16083	6.21786	12.20068	75.86479	3.71247	5.85569	0.00609229	7.43275
4400.00	0.15932	6.27652	13.27328	83.31465	3.97843	6.13267	0.00478717	8.07844
4600.00	0.15801	6.32879	14.39525	91.10457	4.25674	6.40023	0.00379195	8.75397
4800.00	0.15685	6.37543	15.56662	99.24369	4.54742	6.65907	0.00302656	9.45951
5000.00	0.15582	6.41749	16.78748	107.73350	4.85045	6.90957	0.00243325	10.19456
5200.00	0.15491	6.45518	18.05782	116.56654	5.16587	7.15223	0.00194965	10.95975
5400.00	0.15410	6.48936	19.37770	125.74875	5.49364	7.38742	0.00160480	11.75459
5600.00	0.15337	6.52016	20.74711	135.27456	5.83377	7.61555	0.00131559	12.57959
5800.00	0.15271	6.54827	22.16612	145.14974	6.18628	7.83696	0.00108484	13.43422
6000.00	0.15212	6.57382	23.63471	155.37042	6.55115	8.05200	0.00089953	14.31886

T1 = 600.00 ALPHA = 0.80

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.54503	1.83477	1.33513	2.44509	1.06367	0.08076	0.93325570	0.98022
1000.00	0.40849	2.44803	1.60863	3.93798	1.11790	0.26243	0.78540300	1.11132
1200.00	0.33320	3.00119	1.92214	5.76872	1.18116	0.57290	0.61263112	1.28144
1400.00	0.28686	3.48604	2.27402	7.94129	1.25455	0.91770	0.45616857	1.48593
1600.00	0.25608	3.90496	2.67796	10.45734	1.33853	1.29256	0.33104294	1.72151
1800.00	0.23452	4.26411	3.12292	13.31649	1.43330	1.68157	0.23734824	1.98595
2000.00	0.21877	4.57108	3.61365	16.51830	1.53898	2.07443	0.16961432	2.27961
2200.00	0.20698	4.83130	4.15070	20.05326	1.65561	2.46496	0.12145121	2.60342
2400.00	0.19771	5.05763	4.73494	23.94852	1.78328	2.84783	0.08753584	2.95356
2600.00	0.19050	5.24921	5.36643	28.16956	1.92195	3.22201	0.06356200	3.33484
2800.00	0.18466	5.41529	6.04582	32.73985	2.07167	3.58518	0.04659068	3.74402
3000.00	0.17992	5.55803	6.77328	37.64606	2.23244	3.93706	0.03448211	4.18323
3200.00	0.17596	5.68320	7.54920	42.90365	2.40429	4.27702	0.02578209	4.65055
3400.00	0.17268	5.79096	8.37361	48.49119	2.58717	4.60560	0.01946562	5.14858
3600.00	0.16991	5.88559	9.24679	54.42252	2.78114	4.92273	0.01484127	5.67584
3800.00	0.16756	5.96817	10.16881	60.68916	2.98615	5.22893	0.01142186	6.23311
4000.00	0.16553	6.04137	11.13985	67.29999	3.20226	5.52446	0.00887077	6.81966
4200.00	0.16377	6.10609	12.15996	74.24980	3.42944	5.80989	0.00694930	7.43603
4400.00	0.16224	6.16371	13.22925	81.54127	3.66769	6.08564	0.00548925	8.08196
4600.00	0.16091	6.21485	14.34772	89.16887	3.91701	6.35227	0.00436995	8.75805
4800.00	0.15973	6.26070	15.51547	97.13769	4.17741	6.61017	0.00350494	9.46377
5000.00	0.15868	6.30193	16.73255	105.44727	4.44888	6.85980	0.00283111	10.19923
5200.00	0.15776	6.33891	17.99895	114.09378	4.73143	7.10161	0.00230216	10.96479
5400.00	0.15693	6.37240	19.31473	123.08116	5.02506	7.33599	0.00188398	11.76009
5600.00	0.15618	6.40270	20.67992	132.40737	5.32977	7.56334	0.00155107	12.58534
5800.00	0.15551	6.43033	22.09455	142.07534	5.64556	7.78398	0.00128432	13.44025
6000.00	0.15491	6.45536	23.55860	152.07925	5.97242	7.99831	0.00106921	14.32541

T1 = 600.00 ALPHA = 0.90

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.55517	1.80126	1.32610	2.38864	1.05678	0.07535	0.93866001	0.98289
1000.00	0.41620	2.40268	1.60103	3.84675	1.10603	0.27197	0.79574437	1.11400
1200.00	0.33922	2.94790	1.91360	5.64169	1.16343	0.55720	0.62619451	1.28321
1400.00	0.29201	3.42449	2.26854	7.76859	1.22993	0.89794	0.47031495	1.48747
1600.00	0.26067	3.83627	2.66718	10.23200	1.30601	1.26936	0.34425546	1.72267
1800.00	0.23871	4.18923	3.11068	13.03137	1.39185	1.65541	0.24690407	1.98723
2000.00	0.22267	4.49086	3.59982	16.16631	1.48756	2.04568	0.17932613	2.28090
2200.00	0.21059	4.74856	4.13525	19.63652	1.59320	2.43351	0.12946261	2.60342
2400.00	0.20129	4.96800	4.71745	23.43632	1.70874	2.81495	0.09396736	2.95568
2600.00	0.19394	5.15633	5.34695	27.57067	1.83436	3.18721	0.06873213	3.33691
2800.00	0.18798	5.31978	6.02421	32.04740	1.96994	3.54862	0.05073417	3.74597
3000.00	0.18314	5.46030	6.74940	36.85377	2.11553	3.89888	0.03780156	4.18498
3200.00	0.17913	5.58262	7.52285	41.99725	2.27113	4.23749	0.02844247	4.65306
3400.00	0.17579	5.68855	8.34468	47.46914	2.43675	4.56470	0.02160658	5.15120
3600.00	0.17297	5.78142	9.21513	53.27654	2.61238	4.88057	0.01657076	5.67869
3800.00	0.17056	5.86317	10.13432	59.41922	2.79805	5.18547	0.01282633	6.23554
4000.00	0.16850	5.93476	11.10231	65.88957	2.99373	5.47993	0.01001544	6.82267
4200.00	0.16671	5.99834	12.11925	72.69538	3.19944	5.76428	0.00788723	7.43924
4400.00	0.16516	6.05475	13.18519	79.83310	3.41518	6.03905	0.00626146	8.08570
4600.00	0.16379	6.10527	14.30022	87.30676	3.64095	6.30466	0.00500921	8.76160
4800.00	0.16260	6.15013	15.46433	95.10765	3.87674	6.56166	0.00403648	9.46787
5000.00	0.16154	6.19054	16.67762	103.24340	4.12257	6.81042	0.00327525	10.20376
5200.00	0.16059	6.22687	17.94009	111.71068	4.37842	7.05139	0.00267502	10.96962
5400.00	0.15975	6.25973	19.25179	120.51090	4.64431	7.28496	0.00219842	11.76530
5600.00	0.15900	6.28946	20.61274	129.64201	4.92022	7.51152	0.00181740	12.59097
5800.00	0.15831	6.31654	22.02298	139.10907	5.20617	7.73142	0.00151085	13.44636
6000.00	0.15770	6.34107	23.48248	148.90362	5.50215	7.94503	0.00126266	14.33203

T1 = 600.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.56551	1.76893	1.31903	2.33327	1.05106	0.07120	0.94370107	0.98555
1000.00	0.42349	2.36131	1.59365	3.76311	1.09623	0.26108	0.80614032	1.11534
1200.00	0.34526	2.89640	1.90543	5.51889	1.14872	0.54187	0.63937152	1.26501
1400.00	0.29716	3.36521	2.25494	7.60221	1.20953	0.87852	0.46424997	1.48894
1600.00	0.26525	3.77006	2.65639	10.01474	1.27905	1.24650	0.35740205	1.72382
1800.00	0.24290	4.11700	3.09744	12.75627	1.35749	1.62961	0.26050867	1.98852
2000.00	0.22658	4.41349	3.58599	15.82674	1.44494	2.01730	0.18916700	2.26218
2200.00	0.21435	4.66527	4.11960	19.21966	1.54144	2.40316	0.13756957	2.60554
2400.00	0.20455	4.88154	4.69997	22.94312	1.64704	2.78242	0.10059289	2.95766
2600.00	0.19734	5.06749	5.32752	26.99718	1.76178	3.15265	0.07410542	3.33833
2800.00	0.19129	5.22765	6.10261	31.37952	1.88564	3.51244	0.05506436	3.74788
3000.00	0.18636	5.36597	6.72453	36.08894	2.01864	3.86109	0.04129414	4.18675
3200.00	0.18229	5.48587	7.49452	41.12461	2.16079	4.19831	0.03126109	4.65528
3400.00	0.17898	5.59035	8.31580	46.48627	2.31209	4.52409	0.02369015	5.15320
3600.00	0.17600	5.68175	9.18853	52.17381	2.47255	4.83867	0.01842684	5.68066
3800.00	0.17356	5.76153	10.09981	58.19032	2.64215	5.14246	0.01433993	6.23832
4000.00	0.17147	5.83194	11.06474	64.52917	2.82092	5.43578	0.01125637	6.82558
4200.00	0.16965	5.89434	12.07854	71.19507	3.00884	5.71908	0.00890930	7.44245
4400.00	0.16807	5.94976	13.14115	78.18669	3.20593	5.99264	0.00710735	8.08917
4600.00	0.16669	5.99913	14.25268	85.50376	3.41217	6.25752	0.00571247	8.76572
4800.00	0.16547	6.04340	15.41319	93.14799	3.62755	6.51357	0.00462421	9.47198
5000.00	0.16439	6.08311	16.62270	101.1177	3.85215	6.76144	0.00376862	10.20812
5200.00	0.16343	6.11875	17.88123	109.4107	4.08586	7.00157	0.00309101	10.97442
5400.00	0.16258	6.15090	19.18883	118.0284	4.32877	7.23435	0.00255067	11.77068
5600.00	0.16181	6.18016	20.54556	126.9747	4.58083	7.46012	0.00211700	12.59658
5800.00	0.16112	6.20669	21.95140	136.2455	4.84205	7.67927	0.00176669	13.45251
6000.00	0.16049	6.23081	23.40636	145.8404	5.11244	7.89215	0.00148200	14.33850

T1 = 650.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.48775	2.05021	1.34474	2.75700	1.36875	0.10774	0.89786413	0.93574
1000.00	0.36344	2.75145	1.60344	4.41179	1.65607	0.33031	0.71670125	1.05774
1200.00	0.29482	3.39190	1.89940	6.44257	1.99392	0.63698	0.52888528	1.21472
1400.00	0.25261	3.95867	2.23589	8.85114	2.36707	0.99483	0.36978531	1.40421
1600.00	0.22462	4.45201	2.61425	11.63665	2.77353	1.38084	0.25136697	1.61695
1800.00	0.20502	4.87754	3.03530	14.80479	3.20625	1.77982	0.16866766	1.86308
2000.00	0.19073	5.24314	3.49971	18.34945	3.91371	2.18189	0.11282797	2.13318
2200.00	0.18006	5.55361	4.00795	22.25850	4.54005	2.56121	0.07568254	2.43141
2400.00	0.17168	5.82466	4.56180	26.56510	5.22579	2.97257	0.05117151	2.75395
2600.00	0.16512	6.05617	5.15844	31.24040	5.97073	3.35462	0.03492262	3.10413
2800.00	0.15952	6.25714	5.80135	36.29989	6.77508	3.72552	0.02410055	3.48022
3000.00	0.15552	6.42984	6.48971	41.72782	7.63877	4.08496	0.01662379	3.88438
3200.00	0.15196	6.58047	7.22363	47.53616	8.56191	4.43243	0.01158556	4.31482
3400.00	0.14898	6.71232	8.00391	53.72477	9.54454	4.76802	0.00849720	4.77213
3600.00	0.14648	6.82693	8.83004	60.28286	10.58659	5.09215	0.00614478	5.25712
3800.00	0.14434	6.92626	9.70242	67.22090	11.68815	5.40500	0.00449405	5.76901
4000.00	0.14251	7.01705	10.62109	74.52897	12.84917	5.70716	0.00332209	6.30873
4200.00	0.14092	7.09604	11.58620	82.21615	14.06979	5.99897	0.00248131	6.87544
4400.00	0.13954	7.16651	12.59780	90.28295	15.34974	6.28093	0.00187167	7.46925
4600.00	0.13833	7.22898	13.65592	98.71876	16.68929	6.55359	0.00142499	8.09092
4800.00	0.13727	7.28517	14.76066	107.53387	18.08835	6.81736	0.00109461	8.73967
5000.00	0.13633	7.33537	15.91202	116.72853	19.54691	7.07273	0.00084791	9.41621
5200.00	0.13549	7.38076	17.11005	126.28516	21.06499	7.32010	0.00066209	10.11998
5400.00	0.13474	7.42186	18.35480	136.22671	22.64261	7.55989	0.00052093	10.85108
5600.00	0.13407	7.45896	19.64626	146.54073	24.27972	7.79251	0.00041281	11.60990
5800.00	0.13346	7.49278	20.98447	157.23201	25.97637	8.01830	0.00032938	12.39604
6000.00	0.13292	7.52353	22.36945	168.29715	27.73253	8.23763	0.00026451	13.20980

T1 = 650.00 ALPHA = 0.10

UN1	U2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.49649	2.00605	1.33[illegible]	2.68456	1.23406	0.10082	0.90598706	0.93874
1000.00	0.37128	2.69337	1.59659	4.30021	1.41960	0.31743	0.73261660	1.05962
1200.00	0.30113	3.32087	1.89176	6.28229	1.63729	0.61906	0.54540140	1.21639
1400.00	0.25798	3.87628	2.22223	8.63337	1.89043	0.97263	0.36578300	1.40624
1600.00	0.22957	4.35971	2.60441	11.35445	2.18035	1.35501	0.26528680	1.62065
1800.00	0.20935	4.77666	3.02413	14.44529	2.50777	1.75168	0.18863320	1.86485
2000.00	0.19475	5.13486	3.48708	17.90569	2.87293	2.15624	0.12176016	2.13493
2200.00	0.18345	5.43908	3.99373	21.72226	3.27595	2.54716	0.08254546	2.43301
2400.00	0.17529	5.70498	4.54488	25.92642	3.71721	2.93833	0.05636726	2.75557
2600.00	0.16880	5.93117	5.14165	30.49806	4.19651	3.31854	0.03865790	3.10616
2800.00	0.16320	6.12745	5.78156	35.42619	4.71403	3.66576	0.02706764	3.46266
3000.00	0.15877	6.29835	6.46787	40.73694	5.26968	4.04334	0.01907091	3.88579
3200.00	0.15516	6.44509	7.19572	46.40241	5.86374	4.38942	0.01358883	4.31687
3400.00	0.15211	6.57406	7.97741	52.44362	6.49597	4.72364	0.00979577	4.77449
3600.00	0.14957	6.68596	8.80100	58.84329	7.16642	5.04652	0.00714033	5.26001
3800.00	0.14739	6.78492	9.67071	65.61469	7.87519	5.35818	0.00526220	5.77240
4000.00	0.14551	6.87246	10.58662	72.75837	8.62219	5.65912	0.00391906	6.31178
4200.00	0.14389	6.94958	11.54878	80.25917	9.40747	5.94987	0.00294798	6.87896
4400.00	0.14248	7.01637	12.55730	88.13176	10.23106	6.23062	0.00223891	7.47330
4600.00	0.14125	7.07969	13.61222	96.37031	11.09297	6.50248	0.00171592	8.09508
4800.00	0.14016	7.13465	14.71361	104.97637	11.99305	6.76532	0.00132652	8.74420
5000.00	0.13920	7.18386	15.86148	113.94650	12.93152	7.01979	0.00103392	9.42100
5200.00	0.13834	7.22641	17.05589	123.28776	13.90826	7.26629	0.00081218	10.12493
5400.00	0.13758	7.26854	18.29686	132.99140	14.92329	7.50527	0.00064271	10.85656
5600.00	0.13690	7.30481	19.58441	143.06046	15.97661	7.73710	0.00051217	11.61581
5800.00	0.13628	7.33792	20.91857	153.49870	17.06823	7.96213	0.00041087	12.40235
6000.00	0.13572	7.36802	22.29935	164.30210	18.19814	8.18073	0.00033170	13.21650

T1 = 650.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.50925	1.96366	1.33162	2.61487	1.17012	0.09423	0.91355942	0.94177
1000.00	0.37912	2.63771	1.58971	4.19326	1.30729	0.30493	0.74635343	1.06151
1200.00	0.30744	3.25266	1.88410	6.12687	1.46793	0.60155	0.56150302	1.21813
1400.00	0.26335	3.79725	2.21154	8.42443	1.65461	0.95084	0.40161778	1.40789
1600.00	0.23413	4.27113	2.59455	11.08165	1.86835	1.32962	0.27924679	1.62237
1800.00	0.21386	4.67991	3.01294	14.10036	2.10966	1.72236	0.19157472	1.86663
2000.00	0.19846	5.02868	3.47435	17.47137	2.37873	2.11943	0.13068820	2.13775
2200.00	0.18759	5.33083	3.97956	21.21433	2.67582	2.51330	0.08969801	2.43382
2400.00	0.17887	5.59066	4.52896	25.31990	3.00097	2.90046	0.06166816	2.75693
2600.00	0.17208	5.81138	5.12285	29.77865	3.35415	3.27689	0.04303163	3.10813
2800.00	0.16656	6.00383	5.76178	34.59275	3.73551	3.64433	0.03024716	3.48462
3000.00	0.16207	6.17009	6.44594	39.77201	4.14502	4.00247	0.02149282	3.88856
3200.00	0.15836	6.31490	7.17558	45.31667	4.58271	4.34691	0.01544452	4.31916
3400.00	0.15526	6.44085	7.95087	51.21694	5.04857	4.67960	0.01122201	4.77727
3600.00	0.15265	6.55085	8.77196	57.46301	5.54262	5.00133	0.00824323	5.26280
3800.00	0.15042	6.64788	9.63902	64.07511	6.06487	5.31177	0.00611997	5.77530
4000.00	0.14852	6.73332	10.55212	71.05079	6.61532	5.61159	0.00459009	6.31526
4200.00	0.14686	6.80917	11.51134	78.38284	7.19399	5.90122	0.00347652	6.88236
4400.00	0.14543	6.87639	12.51680	86.07089	7.80085	6.18116	0.00265767	7.47715
4600.00	0.14416	6.93654	13.56852	94.11868	8.43594	6.45183	0.00204984	8.09911
4800.00	0.14306	6.99019	14.66654	102.52197	9.09922	6.71375	0.00159436	8.74877
5000.00	0.14208	7.03849	15.81093	111.28567	9.79073	6.96731	0.00125007	9.42575
5200.00	0.14120	7.08201	17.00171	120.40619	10.51045	7.21297	0.00098759	10.13020
5400.00	0.14042	7.12131	18.23891	129.88497	11.25838	7.45112	0.00078586	10.86219
5600.00	0.13972	7.15694	19.52255	139.72172	12.03455	7.68216	0.00062962	11.62166
5800.00	0.13909	7.18935	20.85266	149.91706	12.83893	7.90643	0.00050773	12.40861
6000.00	0.13853	7.21882	22.22925	160.46901	13.67152	8.12429	0.00041196	13.22317

T1 = 650.00 ALPHA = 0.30

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.52062	1.92299	1.32494	2.54753	1.13271	0.08797	0.92061147	0.94481
1000.00	0.38696	2.58427	1.58161	4.09049	1.24167	0.29280	0.75931831	1.06344
1200.00	0.31376	3.18710	1.87641	5.98031	1.36499	0.58446	0.57717830	1.22182
1400.00	0.26872	3.72132	2.20467	8.22368	1.51685	0.92949	0.41726461	1.40927
1600.00	0.23888	4.18617	2.58468	10.81908	1.68611	1.30464	0.29322891	1.62407
1800.00	0.21681	4.58704	3.00175	13.76917	1.87713	1.69438	0.20327172	1.86839
2000.00	0.20279	4.93132	3.46179	17.07116	2.09016	2.08825	0.14034396	2.13840
2200.00	0.19139	5.22483	3.96530	20.71609	2.32527	2.48023	0.09707753	2.43569
2400.00	0.18251	5.47904	4.51297	24.72676	2.58262	2.86533	0.06758465	2.75930
2600.00	0.17555	5.69637	5.10505	29.08022	2.86217	3.24168	0.04744083	3.11007
2800.00	0.16991	5.88550	5.74202	33.79478	3.16401	3.60730	0.03363684	3.48633
3000.00	0.16534	6.04826	6.42406	38.85451	3.48812	3.96186	0.02410165	3.89042
3200.00	0.16156	6.18965	7.15143	44.26451	3.83452	4.30469	0.01745647	4.32165
3400.00	0.15840	6.31306	7.92433	50.02675	4.20323	4.63640	0.01278132	4.77997
3600.00	0.15574	6.42113	8.74292	56.13943	4.59425	4.95660	0.00945828	5.26556
3800.00	0.15346	6.51644	9.60733	62.60563	5.00759	5.26578	0.00707207	5.77799
4000.00	0.15151	6.60016	10.51764	69.41832	5.44325	5.56446	0.00534037	6.31818
4200.00	0.14983	6.67427	11.47394	76.58017	5.90122	5.85303	0.00407122	6.88583
4400.00	0.14837	6.74012	12.47631	84.09151	6.38152	6.13194	0.00313200	7.48088
4600.00	0.14708	6.79894	13.52481	91.95431	6.88415	6.40165	0.00243039	8.10329
4800.00	0.14595	6.85173	14.61950	100.16884	7.40911	6.66260	0.00190155	8.75299
5000.00	0.14495	6.89891	15.76038	108.72930	7.95641	6.91530	0.00149939	9.43048
5200.00	0.14406	6.94153	16.94753	117.64172	8.52601	7.16010	0.00119108	10.13530
5400.00	0.14326	6.98012	18.18094	126.90522	9.11797	7.39742	0.00095285	10.86751
5600.00	0.14255	7.01495	19.46069	136.51576	9.73225	7.62767	0.00076735	11.62748
5800.00	0.14191	7.04667	20.78675	146.47745	10.36885	7.85116	0.00062189	12.41485
6000.00	0.14133	7.07564	22.15916	156.79018	11.02782	8.06830	0.00050705	13.22965

T1 = 650.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.53042	1.68389	1.31729	2.48352	1.10815	0.08201	0.92717192	0.94788
1000.00	0.39481	2.53286	1.57567	3.99145	1.19861	0.26106	0.77171862	1.06544
1200.00	0.32089	3.12417	1.86471	5.83615	1.33410	0.56775	0.59244687	1.22371
1400.00	0.27499	3.64836	2.20116	8.03066	1.42652	0.90455	0.43271408	1.41068
1600.00	0.24363	4.10452	2.57480	10.56830	1.56656	1.26009	0.30720563	1.62578
1800.00	0.22242	4.49603	2.99047	13.44529	1.72462	1.66699	0.21503222	1.87096
2000.00	0.20662	4.83515	3.44911	16.67696	1.90089	2.05798	0.14995013	2.14032
2200.00	0.19511	5.12521	3.95113	20.25040	2.09544	2.44719	0.10473625	2.43642
2400.00	0.18616	5.37177	4.49496	24.15665	2.30829	2.83065	0.07354531	2.76168
2600.00	0.17902	5.58586	5.08724	28.41657	2.53957	3.20492	0.05208214	3.11175
2800.00	0.17325	5.77189	5.72726	33.02829	2.78929	3.56769	0.03724151	3.48799
3000.00	0.16859	5.93143	6.40218	37.97400	3.05740	3.92165	0.02669650	3.89215
3200.00	0.16475	6.06985	7.12729	43.26156	3.34395	4.26323	0.01963002	4.32370
3400.00	0.16153	6.19070	7.89781	48.89300	3.64896	4.59337	0.01447857	4.78230
3600.00	0.15882	6.29656	8.71487	54.86736	3.97242	4.91229	0.01079007	5.26817
3800.00	0.15649	6.38999	9.57863	61.18629	4.31435	5.22026	0.00812284	5.78083
4000.00	0.15452	6.47173	10.48812	67.84395	4.67472	5.51764	0.00617376	6.32162
4200.00	0.15280	6.54446	11.43459	74.84572	5.05357	5.80531	0.00473633	6.88945
4400.00	0.15130	6.60927	12.43581	82.19164	5.45089	6.08316	0.00366595	7.48447
4600.00	0.15000	6.66679	13.48109	89.87956	5.86667	6.35191	0.00286137	8.10734
4800.00	0.14884	6.71842	14.57242	97.90341	6.30093	6.61194	0.00225140	8.75751
5000.00	0.14782	6.76486	15.70983	106.27517	6.75369	6.86371	0.00178501	9.43502
5200.00	0.14692	6.80656	16.89734	114.98546	7.22486	7.10767	0.00142546	10.14034
5400.00	0.14611	6.84430	18.12300	124.03932	7.71453	7.34418	0.00114617	10.87302
5600.00	0.14538	6.87860	19.39883	133.43687	8.22265	7.57362	0.00092764	11.63307
5800.00	0.14473	6.90960	20.72083	143.17271	8.74929	7.79638	0.00075541	12.42100
6000.00	0.14414	6.93793	22.08904	153.25226	9.29439	8.01277	0.00061878	13.23631

T1 = 650.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.54146	1.84687	1.31764	2.42243	1.09060	0.07616	0.93342156	0.95058
1000.00	0.40268	2.48334	1.56489	3.89609	1.16615	0.26970	0.78356234	1.06751
1200.00	0.32639	3.06381	1.86699	5.70172	1.25825	0.55143	0.60732628	1.22551
1400.00	0.27946	3.57835	2.19745	7.84535	1.36270	0.88798	0.44795662	1.41209
1600.00	0.24859	4.02596	2.56490	10.32622	1.48215	1.25594	0.32115531	1.62750
1800.00	0.22665	4.41201	2.97934	13.14487	1.61694	1.63941	0.22704066	1.87188
2000.00	0.21062	4.74345	3.43446	16.30066	1.76722	2.02798	0.15976852	2.14184
2200.00	0.19897	5.02597	3.93480	19.78629	1.93305	2.41520	0.11256561	2.43897
2400.00	0.18978	5.26926	4.48198	23.61142	2.11454	2.79628	0.07975019	2.76341
2600.00	0.18249	5.47964	5.08642	27.77841	2.31172	3.16858	0.05695215	3.11341
2800.00	0.17661	5.66215	5.70247	32.28825	2.52463	3.53059	0.04105105	3.48996
3000.00	0.17186	5.81794	6.38024	37.11984	2.75316	3.88206	0.02987324	3.89469
3200.00	0.16795	5.95420	7.10313	42.29340	2.99745	4.22207	0.02196536	4.32610
3400.00	0.16466	6.07303	7.87128	47.80251	3.25747	4.55079	0.01631673	4.78463
3600.00	0.16189	6.17695	8.68883	53.64570	3.53322	4.86840	0.01224302	5.27056
3800.00	0.15953	6.26830	9.54892	59.82420	3.82471	5.17519	0.00927665	5.78374
4000.00	0.15752	6.34848	10.44962	66.33284	4.13193	5.47163	0.00709518	6.32475
4200.00	0.15576	6.41998	11.39907	73.18180	4.45489	5.75799	0.00547637	6.89263
4400.00	0.15424	6.48329	12.39530	80.36230	4.79360	6.03484	0.00426340	7.48822
4600.00	0.15291	6.53973	13.43737	87.87677	5.14804	6.30200	0.00334649	8.11134
4800.00	0.15174	6.59037	14.52535	95.72744	5.51824	6.56170	0.00264744	8.76178
5000.00	0.15070	6.63581	15.65927	103.91161	5.90419	6.81259	0.00211002	9.43980
5200.00	0.14977	6.67679	16.83916	112.43157	6.30587	7.05568	0.00169360	10.14525
5400.00	0.14895	6.71375	18.06504	121.28429	6.72331	7.29137	0.00136849	10.87838
5600.00	0.14821	6.74729	19.33695	130.47203	7.15649	7.52003	0.00111284	11.63897
5800.00	0.14754	6.77784	20.65492	139.99579	7.60543	7.74201	0.00091043	12.42699
6000.00	0.14694	6.80553	22.01893	149.85056	8.07011	7.95768	0.00074910	13.24285

T1 = 650.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.55223	1.81083	1.30489	2.36294	1.07785	0.07077	0.93912878	0.95356
1000.00	0.41059	2.43554	1.36168	3.80401	1.14551	0.25873	0.79485772	1.06969
1200.00	0.33269	3.00577	1.85526	5.57045	1.22413	0.53544	0.62179531	1.22729
1400.00	0.28402	3.51095	2.18671	7.66691	1.31521	0.86780	0.46297675	1.41353
1600.00	0.25313	3.95046	2.55500	10.09348	1.41933	1.23219	0.33506466	1.62918
1800.00	0.23108	4.32752	2.96402	12.84414	1.53674	1.61299	0.23498657	1.87432
2000.00	0.21454	4.65457	3.42277	15.93616	1.66775	1.99851	0.16974450	2.14354
2200.00	0.20277	4.93169	3.92252	19.34464	1.81229	2.38340	0.12063233	2.44087
2400.00	0.19356	5.17170	4.46504	23.09183	1.97041	2.76214	0.08619892	2.76449
2600.00	0.18596	5.37762	5.05161	27.16565	2.14221	3.13262	0.06204762	3.11496
2800.00	0.17947	5.55636	5.68366	31.57466	2.32769	3.49295	0.04506696	3.49188
3000.00	0.17516	5.70920	6.35832	36.30096	2.52685	3.84281	0.03303874	3.89687
3200.00	0.17115	5.84287	7.07796	41.36143	2.73968	4.18135	0.02446565	4.32852
3400.00	0.16780	5.95935	7.84472	46.74944	2.96623	4.50469	0.01829789	4.78733
3600.00	0.16498	6.06150	8.65577	52.46696	3.20649	4.82498	0.01382000	5.27326
3800.00	0.16257	6.15122	9.51221	58.51167	3.46045	5.13455	0.01053771	5.78660
4000.00	0.16052	6.22994	10.41411	64.87935	3.72812	5.42583	0.00810865	6.32779
4200.00	0.15873	6.29986	11.36162	71.57665	4.00951	5.71113	0.00629497	6.89615
4400.00	0.15718	6.36196	12.35478	78.60026	4.30461	5.98896	0.00492827	7.49204
4600.00	0.15582	6.41749	13.39365	85.95359	4.61344	6.25372	0.00388944	8.11526
4800.00	0.15463	6.46715	14.47828	93.63320	4.93598	6.51189	0.00309309	8.76601
5000.00	0.15357	6.51182	15.60872	101.64122	5.27224	6.76187	0.00247772	9.44417
5200.00	0.15253	6.55191	16.78497	109.97356	5.62222	7.00411	0.00199645	10.15014
5400.00	0.15179	6.58812	18.00708	118.63280	5.98591	7.23499	0.00162246	10.88367
5600.00	0.15103	6.62102	19.27508	127.62063	6.36333	7.46687	0.00132542	11.64464
5800.00	0.15036	6.65089	20.58898	136.93509	6.75447	7.68810	0.00108916	12.43320
6000.00	0.14974	6.67815	21.94881	146.57740	7.15934	7.90302	0.00090005	13.24927

T1 = 650.00 ALPHA = 0.70

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.56302	1.77615	1.29409	2.30540	1.06782	0.06564	0.94443140	0.95655
1000.00	0.41653	2.38933	1.55481	3.71490	1.12797	0.24815	0.80501308	1.07198
1200.00	0.33960	2.94986	1.84550	5.44397	1.19774	0.51983	0.63585119	1.22907
1400.00	0.29019	3.44600	2.17496	7.49400	1.27844	0.84802	0.47775206	1.41503
1600.00	0.25788	3.87777	2.54508	9.86920	1.37075	1.20883	0.34891046	1.63086
1800.00	0.23550	4.24997	2.95788	12.56660	1.47484	1.58615	0.25117498	1.87464
2000.00	0.21884	4.56951	3.41110	15.58700	1.59085	1.96935	0.17969469	2.14469
2200.00	0.20646	4.84346	3.90835	18.93004	1.71898	2.35152	0.12895782	2.44134
2400.00	0.19693	5.07769	4.44910	22.59284	1.85894	2.72538	0.09287177	2.76549
2600.00	0.18940	5.27977	5.03361	26.57737	2.01115	3.09700	0.06736586	3.11626
2800.00	0.18333	5.45469	5.66286	30.88910	2.17545	3.45568	0.04928967	3.49362
3000.00	0.17842	5.60472	6.33648	35.51375	2.35184	3.80394	0.03639239	3.89887
3200.00	0.17433	5.73036	7.05463	40.46981	2.54042	4.14092	0.02713544	4.33035
3400.00	0.17093	5.85048	7.81720	45.74807	2.74104	4.46692	0.02042742	4.78950
3600.00	0.16806	5.95010	8.62468	51.33845	2.95391	4.78201	0.01552457	5.27610
3800.00	0.16551	6.03824	9.46647	57.24574	3.17886	5.08436	0.01190936	5.78968
4000.00	0.16351	6.11575	10.37460	63.47905	3.41597	5.38045	0.00921798	6.33084
4200.00	0.16170	6.18423	11.32417	70.03131	3.66522	5.66470	0.00719628	6.89959
4400.00	0.16012	6.24543	12.31428	76.90709	3.92662	5.93945	0.00566462	7.49544
4600.00	0.15873	6.29989	13.34494	84.10316	4.20017	6.20524	0.00449393	8.11894
4800.00	0.15752	6.34843	14.43120	91.61548	4.48587	6.46250	0.00359176	8.77027
5000.00	0.15644	6.39217	15.55714	99.45020	4.78373	6.71161	0.00289117	9.44889
5200.00	0.15548	6.43153	16.73074	107.60430	5.09373	6.95299	0.00234293	10.15516
5400.00	0.15463	6.46716	17.94912	116.07985	5.41589	7.18704	0.00191084	10.88887
5600.00	0.15386	6.49940	19.21320	124.87439	5.75020	7.41412	0.00156791	11.65025
5800.00	0.15317	6.52877	20.52307	133.99040	6.09667	7.63459	0.00129396	12.43907
6000.00	0.15254	6.55545	21.87870	143.42466	6.45529	7.84878	0.00107373	13.25567

T1 = 650.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.57361	1.74273	1.29125	2.25031	1.05981	0.06077	0.94935285	0.95954
1000.00	0.42649	2.34472	1.54771	3.62666	1.11393	0.23794	0.81586655	1.07572
1200.00	0.34561	2.89594	1.83773	5.32104	1.17671	0.50459	0.64949045	1.23087
1400.00	0.29556	3.38337	2.16420	7.32966	1.24923	0.82863	0.49227585	1.41657
1600.00	0.26270	3.80665	2.53509	9.65021	1.33205	1.18610	0.36259912	1.63304
1800.00	0.23961	4.17341	2.94564	12.29332	1.42554	1.56811	0.26333282	1.87591
2000.00	0.22258	4.48673	3.39438	15.24765	1.52962	1.94075	0.19015944	2.14630
2200.00	0.21027	4.75577	3.88404	18.51910	1.64453	2.32056	0.13741600	2.44333
2400.00	0.20051	4.98730	4.43315	22.10943	1.77025	2.69506	0.09975440	2.76663
2600.00	0.19265	5.18550	5.01601	26.01050	1.90683	3.06178	0.07209781	3.11756
2800.00	0.18608	5.35689	5.64306	30.22930	2.05425	3.41878	0.05371639	3.49524
3000.00	0.18156	5.50410	6.31449	34.75557	2.21255	3.76547	0.03963295	3.90081
3200.00	0.17752	5.63306	7.03165	39.60426	2.38175	4.10101	0.02997072	4.33262
3400.00	0.17416	5.74504	7.79463	44.76526	2.56182	4.42565	0.02270452	4.79207
3600.00	0.17113	5.84350	8.59765	50.24031	2.75280	4.73934	0.01736163	5.27831
3800.00	0.16865	5.92940	9.44473	56.02929	2.95469	5.04257	0.01339544	5.79270
4000.00	0.16651	6.00562	10.33508	62.12846	3.16743	5.33550	0.01042677	6.33393
4200.00	0.16467	6.07292	11.28472	68.54339	3.39109	5.61866	0.00818415	6.90286
4400.00	0.16316	6.13279	12.27474	75.27230	3.62565	5.89242	0.00647568	7.49922
4600.00	0.16185	6.18618	13.30819	82.31446	3.87113	6.15724	0.00516321	8.12311
4800.00	0.16071	6.23396	14.39512	89.67034	4.12751	6.41354	0.00414683	8.77453
5000.00	0.15931	6.27692	15.50757	97.33975	4.39477	6.66175	0.00335367	9.45348
5200.00	0.15854	6.31560	16.67757	105.32244	4.67295	6.90228	0.00273010	10.16000
5400.00	0.15747	6.35056	17.89715	113.61870	4.96204	7.13550	0.00223639	10.89407
5600.00	0.15659	6.38217	19.15132	122.22763	5.26203	7.36180	0.00184285	11.65586
5800.00	0.15578	6.41096	20.45713	131.15029	5.57293	7.58151	0.00152714	12.44510
6000.00	0.15505	6.43715	21.80457	140.38469	5.89473	7.79497	0.00127230	13.26212

T1 = 650.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.58442	1.71052	1.28437	2.19694	1.05325	0.05616	0.95391500	0.96254
1000.00	0.43433	2.30242	1.54165	3.54729	1.10254	0.22783	0.82580676	1.07776
1200.00	0.35164	2.84385	1.82992	5.20469	1.15955	0.46973	0.66271074	1.23271
1400.00	0.30092	3.32312	2.15742	7.16936	1.22537	0.80957	0.50655915	1.41806
1600.00	0.26757	3.74014	2.52522	9.44465	1.30054	1.16326	0.37634732	1.63420
1800.00	0.24395	4.09916	2.93436	12.02642	1.38527	1.53454	0.27550429	1.87741
2000.00	0.22656	4.40803	3.38571	14.92478	1.47972	1.91250	0.20058839	2.14733
2200.00	0.21412	4.67240	3.87960	18.12821	1.58392	2.26974	0.14608220	2.44458
2400.00	0.20419	4.89745	4.41704	21.63229	1.69791	2.66262	0.10679532	2.76931
2600.00	0.19635	5.09290	4.99911	25.45405	1.82175	3.02728	0.07861546	3.11998
2800.00	0.19005	5.26191	5.62722	29.58887	1.95546	3.36242	0.05833620	3.49735
3000.00	0.18484	5.40704	6.29256	34.02419	2.09900	3.72741	0.04365870	3.90276
3200.00	0.18072	5.53327	7.00445	38.76840	2.25242	4.06154	0.03297326	4.33501
3400.00	0.17720	5.64346	7.76507	43.82181	2.41571	4.38476	0.02513261	4.79447
3600.00	0.17422	5.73986	8.56654	49.18243	2.58887	4.69721	0.01933036	5.28125
3800.00	0.17168	5.82466	9.41101	54.85080	2.77192	4.99916	0.01499948	5.79538
4000.00	0.16951	5.89937	10.31155	60.82575	2.96486	5.29097	0.01173843	6.33702
4200.00	0.16763	5.96558	11.24627	67.10849	3.16765	5.57302	0.00926201	6.90609
4400.00	0.16599	6.02426	12.23521	73.69632	3.38033	5.84577	0.00736535	7.50281
4600.00	0.16456	6.07683	13.26947	80.59385	3.60293	6.10959	0.00590119	8.12681
4800.00	0.16330	6.12365	14.33703	87.79505	3.83543	6.36498	0.00476169	8.77868
5000.00	0.16218	6.16551	15.45499	95.30486	4.07776	6.61230	0.00386837	9.45796
5200.00	0.16119	6.20366	16.62237	103.12290	4.32999	6.85196	0.00316293	10.16466
5400.00	0.16031	6.23806	17.83817	111.24432	4.59212	7.08438	0.00260190	10.89931
5600.00	0.15951	6.26913	19.08544	119.67416	4.86414	7.30969	0.00215286	11.66142
5800.00	0.15880	6.29740	20.39119	128.41158	5.14605	7.52884	0.00179115	12.45104
6000.00	0.15815	6.32309	21.73844	137.45426	5.43784	7.74157	0.00149803	13.26844

T1 = 650.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.59544	1.67944	1.27745	2.14540	1.04781	0.05181	0.95813791	0.96555
1000.00	0.44226	2.26104	1.50351	3.46736	1.09309	0.21822	0.83516933	1.08012
1200.00	0.35621	2.79324	1.72207	5.08946	1.14527	0.47532	0.67547211	1.23473
1400.00	0.30628	3.26501	2.14864	7.01534	1.20555	0.79067	0.52058458	1.41955
1600.00	0.27211	3.67500	2.31527	9.24362	1.27433	1.14102	0.38991444	1.63583
1800.00	0.24824	4.02833	2.92813	11.77536	1.35189	1.50917	0.28773902	1.87852
2000.00	0.23056	4.33156	3.37800	14.61037	1.43824	1.88435	0.21110819	2.14866
2200.00	0.21741	4.59125	3.86550	17.74746	1.53355	2.25946	0.15489226	2.44631
2400.00	0.20775	4.81352	4.40110	21.18486	1.63782	2.63102	0.11407745	2.77025
2600.00	0.19976	5.00601	4.98635	24.93166	1.75110	2.99269	0.08456481	3.12072
2800.00	0.19342	5.17022	5.60337	28.97081	1.87335	3.34646	0.06315004	3.49948
3000.00	0.18821	5.31330	6.27163	33.31775	2.00465	3.68975	0.04756750	3.90473
3200.00	0.18382	5.43721	6.98227	37.96488	2.14497	4.02243	0.03614540	4.33717
3400.00	0.18051	5.54600	7.73654	42.91797	2.29432	4.34417	0.02771513	4.79632
3600.00	0.17728	5.64065	8.53550	48.16831	2.45269	4.65535	0.02143709	5.28341
3800.00	0.17471	5.72380	9.38030	53.71960	2.62010	4.95611	0.01672442	5.79782
4000.00	0.17291	5.79685	10.27202	59.56861	2.79654	5.24684	0.01315623	6.34008
4200.00	0.17059	5.86196	11.21162	65.72316	2.98203	5.52779	0.01043313	6.90931
4400.00	0.16893	5.91969	12.19970	72.17699	3.17655	5.79951	0.00833705	7.50621
4600.00	0.16747	5.97108	13.23672	78.93008	3.38012	6.06239	0.00671082	8.13082
4800.00	0.16619	6.01736	14.28097	85.98795	3.59273	6.31679	0.00543972	8.78253
5000.00	0.16505	6.05863	15.40442	93.34141	3.81438	6.56325	0.00443643	9.46232
5200.00	0.16404	6.09595	16.56817	100.99869	4.04507	6.80206	0.00364436	10.16945
5400.00	0.16314	6.12952	17.77519	108.95347	4.28480	7.03366	0.00301020	10.90446
5600.00	0.16233	6.16013	19.02756	117.21231	4.53359	7.25837	0.00250060	11.66672
5800.00	0.16161	6.18784	20.32526	125.76952	4.79141	7.47656	0.00208846	12.45683
6000.00	0.16095	6.21305	21.66931	134.62629	5.05828	7.68857	0.00175319	13.27467

T1 = 700.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.51145	1.95522	1.30725	2.55596	1.33055	0.08818	0.91742536	0.91539
1000.00	0.37813	2.64461	1.54450	4.09514	1.59944	0.28620	0.75111159	1.02553
1200.00	0.30476	3.28126	1.82424	5.98264	1.91366	0.57156	0.56463141	1.17010
1400.00	0.25975	3.84980	2.13535	8.22067	2.27842	0.91670	0.40224116	1.34349
1600.00	0.22999	4.34600	2.48727	10.81032	2.69587	1.26075	0.27762656	1.54287
1800.00	0.20921	4.77991	2.87688	13.75126	3.16703	1.66636	0.18894503	1.76706
2000.00	0.19408	5.15245	3.30782	17.04337	3.69241	2.05710	0.12782472	2.01741
2200.00	0.18279	5.47066	3.77955	20.67874	4.27222	2.44683	0.08656714	2.29383
2400.00	0.17410	5.74704	4.29269	24.67030	4.90685	2.83043	0.05898737	2.59320
2600.00	0.16717	5.98538	4.84754	29.01436	5.59629	3.20565	0.04053243	2.91772
2800.00	0.16150	6.19177	5.44442	33.71080	6.34065	3.57067	0.02813148	3.26721
3000.00	0.15678	6.37036	6.08356	38.75944	7.13992	3.92532	0.01973583	3.64157
3200.00	0.15324	6.52573	6.76519	44.14775	7.99417	4.26858	0.01400166	4.04130
3400.00	0.15012	6.66154	7.48949	49.89156	8.90342	4.60057	0.01004609	4.46604
3600.00	0.14749	6.78026	8.25659	55.98197	9.86763	4.92152	0.00728807	4.91638
3800.00	0.14524	6.88503	9.06663	62.42426	10.88695	5.23161	0.00534489	5.39164
4000.00	0.14332	6.97724	9.91968	69.21272	11.96130	5.53132	0.00396075	5.89258
4200.00	0.14166	7.05912	10.81584	76.35029	13.09060	5.82099	0.00296465	6.41880
4400.00	0.14021	7.13207	11.75517	83.83869	14.27512	6.10106	0.00224045	6.97027
4600.00	0.13895	7.19699	12.73771	91.67314	15.51460	6.37206	0.00170864	7.54742
4800.00	0.13783	7.25529	13.76354	99.85649	16.80915	6.63432	0.00131447	8.14986
5000.00	0.13684	7.30754	14.83265	108.39025	18.15877	6.88835	0.00101960	8.77791
5200.00	0.13597	7.35471	15.94512	117.27176	19.56345	7.13451	0.00079711	9.43139
5400.00	0.13518	7.39736	17.10095	126.50229	21.02321	7.37322	0.00062784	10.11034
5600.00	0.13448	7.43601	18.30015	136.08016	22.53805	7.60485	0.00049803	10.81488
5800.00	0.13385	7.47117	19.54279	146.00745	24.10793	7.82976	0.00039772	11.54489
6000.00	0.13328	7.50321	20.82885	156.28329	25.73291	8.04827	0.00031965	12.30042

T1 = 700.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.52251	1.91273	1.30869	2.48825	1.21509	0.08008	0.92457090	0.91982
1000.00	0.38635	2.58035	1.54201	3.99199	1.39347	0.27418	0.76452112	1.02790
1200.00	0.31133	3.21197	1.81612	5.83334	1.60145	0.55446	0.56100701	1.17218
1400.00	0.26582	3.76910	2.12782	8.01869	1.84269	0.88922	0.41861428	1.34536
1600.00	0.23459	4.25725	2.47717	10.54504	2.11867	1.25556	0.29242328	1.54441
1800.00	0.21305	4.68050	2.86457	13.41697	2.43011	1.63790	0.20109506	1.76876
2000.00	0.19620	5.04552	3.29017	16.63089	2.77736	2.02591	0.13752497	2.01909
2200.00	0.18258	5.35970	3.75452	20.18745	3.16058	2.41282	0.09415219	2.29470
2400.00	0.17157	5.62830	4.25780	24.07785	3.57991	2.79456	0.06478499	2.59492
2600.00	0.16260	5.86164	4.80113	28.31232	4.03551	3.16783	0.04494960	2.91964
2800.00	0.15492	6.06352	5.42514	32.90164	4.52736	3.53128	0.03148830	3.26936
3000.00	0.14828	6.23903	6.08337	37.82959	5.05557	3.88400	0.02229143	3.64363
3200.00	0.14247	6.39082	6.74290	43.09247	5.62005	4.22579	0.01595053	4.04378
3400.00	0.13728	6.52399	7.46500	48.70156	6.22089	4.55634	0.01153956	4.46858
3600.00	0.13260	6.64009	8.22975	54.64632	6.85808	4.87599	0.00843809	4.91918
3800.00	0.12831	6.74254	9.03732	60.93456	7.53168	5.18487	0.00623561	5.39482
4000.00	0.12435	6.83310	9.88779	67.56422	8.24152	5.48358	0.00465504	5.89578
4200.00	0.12065	6.91317	10.78122	74.53245	8.98784	5.77196	0.00350905	6.42234
4400.00	0.11717	6.98451	11.71770	81.84236	9.77046	6.05101	0.00266999	6.97418
4600.00	0.11388	7.04831	12.69727	89.49426	10.56951	6.32096	0.00204974	7.55135
4800.00	0.11074	7.10535	13.71998	97.48834	11.44494	6.58229	0.00159693	8.15412
5000.00	0.10773	7.15647	14.78586	105.81455	12.33675	6.83541	0.00123852	8.78256
5200.00	0.10484	7.20266	15.89495	114.48622	13.26495	7.08071	0.00097405	9.43633
5400.00	0.10204	7.24442	17.04728	123.49770	14.22954	7.31859	0.00077163	10.11565
5600.00	0.09932	7.28223	18.24287	132.84871	15.23051	7.54943	0.00061551	10.82058
5800.00	0.09667	7.31669	19.48174	142.54101	16.26788	7.77356	0.00049421	11.55087
6000.00	0.09409	7.34801	20.76389	152.57320	17.34164	7.99134	0.00039929	12.30689

T1 = 700.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.53420	1.87195	1.29447	2.42315	1.15804	0.07431	0.93119104	0.92313
1000.00	0.39498	2.53437	1.53545	3.89149	1.29165	0.26255	0.77732744	1.03027
1200.00	0.31782	3.14540	1.80496	5.68987	1.44719	0.53780	0.59691693	1.17430
1400.00	0.27088	3.69166	2.11427	7.82340	1.62743	0.86817	0.43476862	1.34724
1600.00	0.23900	4.17021	2.46105	10.29299	1.83354	1.23060	0.30701765	1.54599
1800.00	0.21630	4.58513	2.85424	13.09629	2.06607	1.60995	0.21339506	1.77048
2000.00	0.20262	4.94273	3.28450	16.23439	2.32531	1.99521	0.14745431	2.02090
2200.00	0.19053	5.24847	3.75350	19.69910	2.61137	2.38002	0.10193362	2.29764
2400.00	0.18183	5.51472	4.26231	23.51098	2.92448	2.75909	0.07165518	2.59649
2600.00	0.17413	5.74295	4.81471	27.65065	3.26454	3.13045	0.04961781	2.92156
2800.00	0.16682	5.94117	5.40793	32.12941	3.63174	3.49205	0.03507264	3.27112
3000.00	0.16051	6.11217	6.04513	36.93866	4.02599	3.84326	0.02503981	3.64624
3200.00	0.15549	6.26203	6.72 03	42.08478	4.44738	4.18337	0.01806839	4.04582
3400.00	0.15044	6.39213	7.44 51	47.56647	4.89587	4.51256	0.01317509	4.47102
3600.00	0.15371	6.50565	8.21291	53.38527	5.37145	4.83092	0.00976741	4.92195
3800.00	0.15167	6.60626	9.03103	59.53977	5.87425	5.13853	0.00722656	5.39703
4000.00	0.14957	6.69474	9.89989	66.03263	6.41415	5.43590	0.00543283	5.89902
4200.00	0.14784	6.77321	10.74160	72.76830	6.98122	5.72336	0.00412326	6.42579
4400.00	0.14613	6.84303	11.85122	79.92615	7.54543	6.00139	0.00315794	6.97797
4600.00	0.14461	6.90544	12.85161	87.40090	8.15686	6.27036	0.00243967	7.55553
4800.00	0.14325	6.96129	13.89741	95.20549	8.79533	6.53075	0.00190037	8.15864
5000.00	0.14202	7.01149	14.98905	103.34279	9.46102	6.78295	0.00149195	8.78723
5200.00	0.14171	7.05666	15.82477	111.81152	10.15385	7.02739	0.00118006	9.44143
5400.00	0.14009	7.09762	16.99360	120.61419	10.87387	7.26443	0.00094001	10.12102
5600.00	0.14016	7.13466	18.18556	129.74813	11.62105	7.49447	0.00075385	10.82625
5800.00	0.13950	7.16836	19.42 66	139.2143	12.39538	7.71784	0.00060843	11.55704
6000.00	0.13891	7.19907	20.69 93	149.01307	13.19688	7.93487	0.00049406	12.31337

T1 = 700.00 ALPHA = 0.30

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	TS2-S1/R	PT2/PT1	(PT2-P2)/P1
800.00	0.54582	1.83278	1.28798	2.36059	1.12392	0.06884	0.93731638	0.92647
1000.00	0.40282	2.48249	1.52890	3.79549	1.23097	0.25130	0.78954000	1.03267
1200.00	0.32452	3.08146	1.80374	5.55200	1.35520	0.52154	0.61236876	1.17642
1400.00	0.27600	3.61527	2.11109	7.63217	1.49903	0.84799	0.45049980	1.34810
1600.00	0.24470	4.08666	2.45492	10.04852	1.65354	1.20646	0.32159038	1.54758
1800.00	0.22254	4.49359	2.84590	12.78634	1.84904	1.58242	0.22562220	1.77220
2000.00	0.20642	4.84449	3.27283	15.85521	2.05562	1.96487	0.15760964	2.02251
2200.00	0.19432	5.14619	3.74025	19.24601	2.28402	2.34691	0.11004279	2.29822
2400.00	0.18497	5.40627	4.24963	22.96922	2.53372	2.72396	0.07719347	2.59775
2600.00	0.17745	5.62891	4.79928	27.00906	2.80493	3.09353	0.05453239	2.92353
2800.00	0.17170	5.82396	5.38969	31.38947	3.09779	3.45322	0.03888355	3.27271
3000.00	0.16640	5.99160	6.02294	36.08764	3.41221	3.80279	0.02799029	3.64804
3200.00	0.16294	6.13705	6.69529	41.10776	3.74824	4.14159	0.02035390	4.04871
3400.00	0.15982	6.26482	7.41594	46.45967	4.10592	4.46933	0.01495554	4.47401
3600.00	0.15682	6.37654	8.17805	52.13492	4.48524	4.78631	0.01110082	4.92474
3800.00	0.15443	6.47522	8.97871	58.13916	4.88623	5.09267	0.00832231	5.40000
4000.00	0.15210	6.56186	9.82798	64.46371	5.30863	5.38688	0.00629903	5.90228
4200.00	0.15082	6.63904	10.71598	71.11736	5.75307	5.67522	0.00481213	6.42900
4400.00	0.14979	6.70721	11.64274	78.09031	6.21897	5.95223	0.00370863	6.98173
4600.00	0.14775	6.76833	12.61834	85.39156	6.70655	6.22021	0.00288253	7.55963
4800.00	0.14656	6.82312	13.63283	93.01842	7.21576	6.47964	0.00225854	8.16294
5000.00	0.14551	6.87225	14.69223	100.96675	7.74664	6.73095	0.00178319	8.79192
5200.00	0.14458	6.91658	15.79459	109.24452	8.29918	6.97451	0.00141818	9.44637
5400.00	0.14375	6.95667	16.93992	117.84540	8.87339	7.21073	0.00113570	10.12634
5600.00	0.14300	6.99297	18.12824	126.77031	9.46925	7.43997	0.00091547	10.83193
5800.00	0.14233	7.02599	19.35958	136.02032	10.08678	7.66257	0.00074257	11.56306
6000.00	0.14172	7.05614	20.63396	145.59619	10.72597	7.87886	0.00060591	12.31967

T1 = 700.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.55646	1.79579	1.25153	2.30178	1.10123	0.06349	0.94314606	0.92940
1000.00	0.41139	2.43254	1.52229	3.70360	1.19062	0.24044	0.80116867	1.08513
1200.00	0.33110	3.02021	1.79452	5.41985	1.29410	0.50562	0.62739547	1.17698
1400.00	0.282 2	3.54566	2.10709	7.45726	1.41383	0.82732	0.40636305	1.34926
1600.00	0.24959	4.00504	2.44[illegible]	9.81110	1.55061	1.18263	0.33602591	1.54980
1800.00	0.22648	4.40563	2.80[illegible]	12.49277	1.70491	1.55532	0.23635217	1.77395
2000.00	0.21081	4.74809	3.25[illegible]	15.46385	1.[illegible]	1.93532	0.16790336	2.02507
2200.00	0.19817	5.04615	3.72711	18.80746	2.[illegible]6661	2.31454	0.11836252	2.29972
2400.00	0.188[illegible]9	5.29977	4.[illegible]	22.43641	2.27429	2.68965	0.08375506	2.60024
2600.00	0.18118	5.51923	4.[illegible]	26.39109	2.49971	3.05707	0.05968842	2.92557
2800.00	0.17512	5.71021	5.[illegible]	30.67150	2.7432[illegible]	3.41501	0.04291062	3.27503
3000.00	0.17022	5.87460	5.[illegible]	35.26342	3.[illegible]461	3.76293	0.03113506	3.65060
3200.00	0.16616	6.01843	6.[illegible]	40.17919	3.28402	4.10003	0.02261763	4.05047
3400.00	0.16279	6.14284	7.39[illegible]	45.40441	3.58138	4.42650	0.01668677	4.47603
3600.00	0.15994	6.25246	8.14[illegible]	50.95262	3.89674	4.74214	0.01262264	4.92752
3800.00	0.15750	6.34912	8.94[illegible]	56.82064	4.23010	5.04725	0.00952739	5.40373
4000.00	0.15542	6.43409	9.79[illegible]	63.00297	4.58145	5.34233	0.00725823	5.90562
4200.00	0.15362	6.50957	10.67732	69.50470	4.95060	5.62759	0.00557963	6.43277
4400.00	0.152[illegible]5	6.57675	11.[illegible]	76.32479	5.33815	5.90350	0.00432639	6.98540
4600.00	0.150[illegible]8	6.63662	12.57[illegible]87	83.46107	5.74351	6.17050	0.00338231	7.56361
4800.00	0.14947	6.69028	13.58[illegible]25	90.91554	6.16667	6.42899	0.00266508	8.16730
5000.00	0.14840	6.73852	14.64[illegible]41	98.68876	6.60824	6.67938	0.00211567	8.79647
5200.00	0.14745	6.78194	15.74[illegible]39	106.77752	7.06762	6.92209	0.00169147	9.45129
5400.00	0.14660	6.82122	16.88[illegible]22	115.18450	7.54501	7.15748	0.00136147	10.13163
5600.00	0.14584	6.85687	18.07[illegible]92	123.90997	8.04040	7.38591	0.00110291	10.83747
5800.00	0.14515	6.88920	19.29[illegible]50	132.95116	8.55381	7.60775	0.00089890	11.56903
6000.00	0.14454	6.91870	20.56[illegible]98	142.31048	9.08522	7.82330	0.00073689	12.32610

T1 = 700.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.56826	1.75976	1.27498	2.24362	1.[illegible]851[illegible]	0.05856	0.94842252	0.93266
1000.00	0.41940	2.38437	1.51562	3.01[illegible]	1.16184	0.22997	0.81222340	1.03766
1200.00	0.33708	2.96137	1.78723	5.29[illegible]	1.25055	0.49707	0.64197972	1.17920
1400.00	0.28758	3.47724	2.09497	7.28475	1.35305	0.80746	0.46178498	1.35124
1600.00	0.25430	3.92922	2.44159	9.58964	1.47[illegible]	1.15903	0.35057270	1.55087
1800.00	0.23142	4.32108	2.82518	12.20[illegible]	1.60221	1.52[illegible]63	0.25[illegible]96541	1.77508
2000.00	0.21[illegible]4	4.65693	3.24[illegible]44	15.13892	1.74935	1.90553	0.17847687	2.02596
2200.00	0.202[illegible]3	4.94964	3.71[illegible]95	18.38269	1.91171	2.28264	0.12690253	2.30137
2400.00	0.192[illegible]0	5.19763	4.21[illegible]05	21.92911	2.08931	2.65573	0.09055952	2.60259
2600.00	0.18472	5.41372	4.76[illegible]37	25.79[illegible]7	2.28227	3.02105	0.06500091	2.92762
2800.00	0.17[illegible]4	5.60094	5.35[illegible]10	29.98239	2.49059	3.37722	0.04715901	3.27726
3000.00	0.17[illegible]5	5.76210	5.98243	34.47[illegible]1	2.71424	3.72[illegible]50	0.03447925	3.65297
3200.00	0.16941	5.90287	6.[illegible]5[illegible]65	39.27564	2.95328	4.05914	0.02545264	4.05332
3400.00	0.165[illegible]4	6.02028	7.36[illegible]93	44.39519	3.20771	4.38395	0.01[illegible]97351	4.47862
3600.00	0.163[illegible]4	6.13331	8.[illegible]2933	49.81672	3.47750	4.69[illegible]39	0.01427781	4.93018
3800.00	0.160[illegible]7	6.22796	8.92[illegible]14	55.553[illegible]5	3.76270	5.00251	0.01084659	5.40666
4000.00	0.158[illegible]4	6.31144	9.76[illegible]13	61.60047	4.[illegible]632[illegible]	5.29[illegible]17	0.00831523	5.90866
4200.00	0.156[illegible]0	6.38560	10.[illegible]4269	67.95963	4.37929	5.58032	0.00643092	6.43594
4400.00	0.155[illegible]0	6.45142	11.56776	74.62667	4.71063	5.85520	0.00501548	6.98886
4600.00	0.153[illegible]1	6.50994	12.[illegible]3539	81.60[illegible]5	5.05747	6.12123	0.00394298	7.56757
4800.00	0.152[illegible]8	6.56265	13.54565	88.89540	5.41967	6.37[illegible]76	0.00312375	8.17145
5000.00	0.15129	6.60959	14.[illegible]2[illegible]59	96.49[illegible]9	5.79727	6.62[illegible]26	0.00249278	8.80102
5200.00	0.15032	6.65246	15.[illegible]4419	104.40[illegible]5	6.19028	6.87[illegible]10	0.00200307	9.45617
5400.00	0.14945	6.69099	16.[illegible]3252	112.62616	6.5987[illegible]	7.10466	0.00162021	10.13683
5600.00	0.14[illegible]8	6.72590	18.[illegible]1359	121.15752	7.[illegible]2252	7.33230	0.00131675	10.84310
5800.00	0.147[illegible]8	6.75767	19.23741	130.00004	7.46173	7.55337	0.00107979	11.57489
6000.00	0.14735	6.78656	20.50400	139.15167	7.91639	7.76[illegible]18	0.00088913	12.33241

T1 = 700.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.57958	1.72510	1.26[illegible]34	2.18881	1.07296	0.05390	0.95329669	0.93593
1000.00	0.42775	2.33782	1.50[illegible]90	3.52750	1.14023	0.21991	0.82271391	1.04030
1200.00	0.34476	2.90474	1.74[illegible]01	5.17048	1.21795	0.47489	0.65411799	1.18140
1400.00	0.29315	3.41118	2.08[illegible]84	7.11856	1.30759	0.78804	0.49693334	1.35322
1600.00	0.25946	3.85500	2.43141	9.37306	1.40995	1.13591	0.36494835	1.55252
1800.00	0.23543	4.23860	2.81474	11.93054	1.52531	1.50259	0.26356454	1.77795
2000.00	0.21675	4.57140	3.23[illegible]72	14.80093	1.65369	1.87649	0.18915640	2.02770
2200.00	0.20543	4.85599	3.70[illegible]73	17.97876	1.79574	2.25131	0.13563504	2.30345
2400.00	0.19637	5.10027	4.20[illegible]30	21.44306	1.95091	2.62207	0.09760804	2.60442
2600.00	0.18824	5.31229	4.74[illegible]96	25.22756	2.11949	2.98542	0.07078516	2.92961
2800.00	0.18145	5.49597	5.33[illegible]87	29.31996	2.30144	3.33981	0.05162669	3.27938
3000.00	0.17685	5.65439	5.96[illegible]14	33.71240	2.49867	3.68442	0.03802460	3.65503
3200.00	0.17284	5.79256	6.63[illegible]32	38.41238	2.70575	4.01853	0.02826863	4.05550
3400.00	0.16912	5.91283	7.34[illegible]55	43.41402	2.92794	4.34209	0.02121320	4.48163
3600.00	0.16614	6.01890	8.09[illegible]47	48.72553	3.16367	4.65501	0.01606979	4.93257
3800.00	0.16363	6.11147	8.89[illegible]70	54.33521	3.41281	4.95775	0.01228399	5.40947
4000.00	0.16146	6.19344	9.72[illegible]20	60.25186	3.67541	5.25044	0.00947411	5.91164
4200.00	0.15950	6.26580	10.60[illegible]91	66.46768	3.95145	5.53355	0.00736940	6.43962
4400.00	0.15797	6.33039	11.53[illegible]23	72.99087	4.24095	5.80738	0.00577964	6.99278
4600.00	0.15654	6.38804	12.49[illegible]90	79.81706	4.54392	6.07239	0.00456645	7.57150
4800.00	0.15528	6.43981	13.50[illegible]07	86.95675	4.86033	6.32897	0.00363820	8.17558
5000.00	0.15418	6.48612	14.55[illegible]75	94.38447	5.19020	6.57757	0.00291796	8.80550
5200.00	0.15319	6.52797	15.64[illegible]09	102.12359	5.53353	6.81853	0.00235621	9.46084
5400.00	0.15231	6.56563	16.77[illegible]81	110.16356	5.89032	7.05225	0.00191483	10.14204
5600.00	0.15152	6.59993	17.95[illegible]25	118.50999	6.26057	7.27912	0.00156570	10.84655
5800.00	0.15081	6.63104	19.17[illegible]31	127.15861	6.64427	7.49942	0.00128768	11.58080
6000.00	0.15016	6.65940	20.43[illegible]01	136.11159	7.04144	7.71350	0.00106489	12.33865

T1 = 700.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.59111	1.69174	1.2[illegible]	2.13433	1.06350	0.04951	0.95779316	0.93921
1000.00	0.43610	2.29308	1.5[illegible]	3.44455	1.12351	0.21[illegible]	0.83271758	1.04290
1200.00	0.350[illegible]6	2.85017	1.77[illegible]	5.05256	1.1925[illegible]	0.46[illegible]10	0.66960808	1.18361
1400.00	0.29878	3.34691	2.07[illegible]4	6.957[illegible]4	1.27223	0.76915	0.51172878	1.35551
1600.00	0.26491	3.78349	2.42[illegible]0	9.16439	1.36315	1.11320	0.37921861	1.55420
1800.00	0.24051	4.16137	2.8[illegible]39	11.67[illegible]12	1.4656[illegible]	1.47647	0.27635459	1.77917
2000.00	0.22256	4.48713	3.32[illegible]0	14.47540	1.57974	1.84705	0.19997650	2.02942
2200.00	0.20976	4.76740	3.88[illegible]59	17.58019	1.70567	2.22[illegible]06	0.14460068	2.30469
2400.00	0.19958	5.00793	4.49[illegible]50	20.98120	1.84343	2.56[illegible]54	0.10490195	2.60544
2600.00	0.19176	5.21490	5.13[illegible]44	24.67[illegible]16	1.99305	2.95017	0.07655711	2.93141
2800.00	0.185[illegible]6	5.39502	5.[illegible]40	28.6[illegible]270	2.1546[illegible]	3.30280	0.05631023	3.28140
3000.00	0.18016	5.55076	5.[illegible]43	32.98209	2.32504	3.64574	0.04176948	3.65696
3200.00	0.175[illegible]5	5.68662	6.[illegible]61	37.58269	2.51341	3.97429	0.03126502	4.05745
3400.00	0.172[illegible]7	5.80487	7.[illegible]54	42.47946	2.7107[illegible]	4.30[illegible]41	0.02361579	4.48356
3600.00	0.169[illegible]7	5.90786	8.[illegible]55	47.66746	2.91997[illegible]	4.61220	0.01799927	4.93566
3800.00	0.166[illegible]9	5.99933	9.[illegible]38	53.16202	3.14105[illegible]	4.91361	0.01384324	5.41223
4000.00	0.164[illegible]8	6.07972	[illegible]27	58.95861	3.37415[illegible]	5.20515	0.01073868	5.91468
4200.00	0.162[illegible]8	6.15070	1[illegible].57[illegible]35	65.06[illegible]3	3.61917[illegible]	5.48716	0.00839978	6.44294
4400.00	0.161[illegible]2	6.21424	11.[illegible]73	71.41[illegible]4	3.[illegible]7514	5.75993	0.00662344	6.99619
4600.00	0.159[illegible]7	6.27074	12.[illegible]43	78.09[illegible]3	4.14503[illegible]	6.02396	0.00526263	7.57528
4800.00	0.158[illegible]9	6.32142	13.[illegible]47	85.07[illegible]4	4.42594[illegible]	6.27961	0.00421205	8.17979
5000.00	0.157[illegible]6	6.36682	14.[illegible]90	92.35[illegible]7	4.71873[illegible]	6.52732	0.00339460	8.81010
5200.00	0.156[illegible]6	6.40783	15.[illegible]77	99.92[illegible]4	5.02344	6.76[illegible]43	0.00275397	9.46584
5400.00	0.15516	6.44492	16.[illegible]10	107.79[illegible]2	5.34013	7.00[illegible]32	0.00224831	10.14716
5600.00	0.154[illegible]5	6.47859	17.[illegible]91	115.95[illegible]65	5.[illegible]6577	7.22[illegible]36	0.00184649	10.85401
5800.00	0.153[illegible]3	6.50913	18.11[illegible]21	124.42[illegible]44	6.[illegible]0935	7.44590	0.00152511	11.58658
6000.00	0.152[illegible]8	6.53700	2[illegible].37[illegible]02	133.18[illegible]487	6.36185	7.65923	0.00126649	12.34473

T1 = 700.00 ALPHA = 0.80

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.60256	1.65959	1.25493	2.08265	1.05593	0.04536	0.96193429	0.94250
1000.00	0.44432	2.25063	1.49542	3.36564	1.11018	0.20054	0.84238683	1.04513
1200.00	0.35746	2.79749	1.76438	4.93864	1.17230	0.44569	0.68304908	1.18586
1400.00	0.30450	3.28623	2.07150	6.80412	1.24369	0.75031	0.52638031	1.35720
1600.00	0.26921	3.71459	2.41298	8.96329	1.32574	1.09087	0.39337085	1.55589
1800.00	0.24475	4.08586	2.79398	11.41586	1.41785	1.45098	0.28909361	1.78091
2000.00	0.227 5	4.40428	3.21417	14.15616	1.52045	1.81995	0.21065574	2.03198
2200.00	0.213?7	4.68021	3.67434	17.19687	1.63369	2.18961	0.15370190	2.30693
2400.00	0.20340	4.91646	4.17477	20.52510	1.75750	2.55590	0.11236269	2.60790
2600.00	0.19525	5.12157	4.71569	24.15329	1.89202	2.91521	0.08263370	2.93288
2800.00	0.18675	5.29789	5.29 19	28.06926	2.03721	3.26617	0.06120612	3.28331
3000.00	0.18346	5.45091	5.92168	32.27850	2.19311	3.60745	0.04571165	3.65887
3200.00	0.17910	5.58352	6.59662	36.77657	2.35972	3.93863	0.03443601	4.06017
3400.00	0.17545	5.69955	7.29424	41.56849	2.53704	4.25936	0.02617445	4.48657
3600.00	0.17257	5.80142	8.04267	46.65516	2.72510	4.56971	0.02007242	4.93819
3800.00	0.16976	5.89084	8.83198	52.02760	2.92387	4.86995	0.01552670	5.41538
4000.00	0.16750	5.97002	9.66231	57.69615	3.13335	5.16028	0.01211252	5.91782
4200.00	0.16557	6.03986	10.53369	63.65218	3.35361	5.44117	0.00952573	6.44613
4400.00	0.16388	6.10193	11.45519	69.89869	3.58454	5.71295	0.00755003	7.00003
4600.00	0.16240	6.15754	12.41791	76.43918	3.82624	5.97597	0.00602909	7.57922
4800.00	0.16110	6.20727	13.41485	83.26966	4.07872	6.23066	0.00484887	8.18406
5000.00	0.15995	6.25190	14.45505	90.39023	4.34189	6.47747	0.00392618	8.81457
5200.00	0.15893	6.29225	15.54456	97.80394	4.61580	6.71670	0.00319970	9.47048
5400.00	0.15801	6.32866	16.67139	105.50797	4.90045	6.94877	0.00262367	10.15208
5600.00	0.15719	6.36160	17.84455	113.50075	5.19583	7.17403	0.00216389	10.85950
5800.00	0.15646	6.39156	19.05409	121.78544	5.50195	7.39280	0.00179463	11.59246
6000.00	0.15579	6.41886	20.30000	130.36104	5.81881	7.60540	0.00149626	12.35105

T1 = 700.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.614[illegible]3	1.62858	1.24[illegible]14	2.03270	1.04970	0.04150	0.96574000	0.94582
1000.00	0.45271	2.20891	1.48[illegible]58	3.28812	1.09911	0.19146	0.85141339	1.04782
1200.00	0.36416	2.74591	1.75[illegible]94	4.82714	1.15570	0.43186	0.69572661	1.18850
1400.00	0.30987	3.22721	2.00[illegible]30	6.65546	1.22087	0.73196	0.54068115	1.35913
1600.00	0.27411	3.64821	2.40[illegible]75	8.76936	1.29515	1.06890	0.40739577	1.55756
1800.00	0.24919	4.01300	2.78[illegible]58	11.17063	1.37882	1.42508	0.30163729	1.78265
2000.00	0.231[illegible]7	4.32763	3.20[illegible]51	13.85922	1.47201	1.79175	0.22196606	2.03287
2200.00	0.217[illegible]8	4.59018	3.66[illegible]19	16.83[illegible]1	1.57481	2.15911	0.16302576	2.30804
2400.00	0.207[illegible]0	4.83094	4.10[illegible]07	20.09[illegible]4	1.68727	2.52312	0.12[illegible]7439	2.60876
2600.00	0.198[illegible]8	5.03079	4.[illegible]9951	23.64[illegible]1	1.[illegible]0948	2.86[illegible]0	0.08[illegible]0986	2.93466
2800.00	0.19214	5.20444	5.27[illegible]29	27.47[illegible]0	1.94125	3.22990	0.06631089	3.26506
3000.00	0.186[illegible]6	5.35454	5.90141	31.59931	2.[illegible]8280	3.56959	0.04984836	3.66085
3200.00	0.182[illegible]3	5.48450	6.56[illegible]25	36.00167	2.[illegible]3407	3.89931	0.03778600	4.06257
3400.00	0.178[illegible]1	5.59879	7.26[illegible]68	40.69567	2.39509	4.21857	0.02889815	4.48686
3600.00	0.175[illegible]8	5.69867	8.[illegible]76	45.67344	2.56583	4.52764	0.02228985	4.94081
3800.00	0.172[illegible]2	5.78639	8.[illegible]61	50.93534	2.74632	4.82[illegible]6	0.01733850	5.41834
4000.00	0.170[illegible]3	5.86414	9.[illegible]234	56.48541	2.93655	5.11[illegible]4	0.01359896	5.92103
4200.00	0.168[illegible]5	5.93295	10.50402	62.31977	3.13652	5.39560	0.01075072	6.44933
4400.00	0.166[illegible]4	5.99389	11.41767	68.43621	3.34623	5.66634	0.00856366	7.00352
4600.00	0.16533	6.04840	12.37[illegible]40	74.83922	3.56569	5.92[illegible]38	0.00667154	7.58308
4800.00	0.164[illegible]1	6.09720	13.37[illegible]22	81.52[illegible]0	3.79489	6.1[illegible]215	0.00555221	8.18627
5000.00	0.162[illegible]4	6.14106	14.41119	88.50029	4.03384	6.42604	0.00451603	8.81900
5200.00	0.16179	6.18071	15.49[illegible]33	95.7597[illegible]	4.28255	6.66540	0.00369649	9.47522
5400.00	0.160[illegible]7	6.21636	16.61765	103.30131	4.54100	6.89706	0.00304380	10.15734
5600.00	0.16003	6.24876	17.78419	111.12916	4.80919	7.12211	0.00252072	10.86497
5800.00	0.15928	6.27822	18.99[illegible]97	119.24196	5.08714	7.34[illegible]11	0.00209889	11.59823
6000.00	0.158[illegible]0	6.30507	20.24[illegible]99	127.6398[illegible]	5.37484	7.55[illegible]96	0.00175670	12.35712

T1 = 700.00 ALPHA = 1.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.62554	1.59862	1.24130	1.98437	1.04450	0.03787	0.96922667	0.94918
1000.00	0.46103	2.16906	1.48776	3.21405	1.08990	0.18260	0.86048895	1.05026
1200.00	0.37089	2.69766	1.75164	4.72269	1.14184	0.41791	0.70425204	1.19032
1400.00	0.31543	3.17026	2.05409	6.51241	1.20161	0.71400	0.55468577	1.36104
1600.00	0.27911	3.58415	2.39450	8.58226	1.26965	1.04730	0.42327497	1.55924
1800.00	0.25382	3.94288	2.77112	10.93407	1.34631	1.40115	0.31457283	1.78436
2000.00	0.23519	4.25181	3.19073	13.56677	1.43164	1.76434	0.23309073	2.03472
2200.00	0.22142	4.51636	3.64967	16.47756	1.52575	2.12958	0.17242333	2.31066
2400.00	0.21069	4.74641	4.14525	19.67577	1.62875	2.49113	0.12793406	2.61082
2600.00	0.20233	4.94231	4.68264	23.14453	1.74058	2.84697	0.09537361	2.93700
2800.00	0.19555	5.11381	5.26155	26.90657	1.86131	3.19411	0.07101213	3.26708
3000.00	0.19006	5.26141	5.88113	30.94301	1.99092	3.53214	0.05417644	3.66291
3200.00	0.18556	5.38916	6.54169	35.25536	2.12943	3.86634	0.04131976	4.06478
3400.00	0.18176	5.50166	7.24413	39.85475	2.27684	4.17817	0.03178519	4.49106
3600.00	0.17859	5.59953	7.98785	44.72822	2.43319	4.48597	0.02465381	4.94340
3800.00	0.17587	5.68601	8.77324	49.88484	2.59845	4.76371	0.01928204	5.42086
4000.00	0.17355	5.76195	9.60034	55.31662	2.77262	5.07180	0.01520116	5.92425
4200.00	0.17154	5.82970	10.46933	61.03305	2.95571	5.35044	0.01207796	6.45260
4400.00	0.16979	5.88971	11.38015	67.02542	3.14772	5.62411	0.00966768	7.00683
4600.00	0.16826	5.94309	12.33288	73.29543	3.34865	5.88119	0.00779345	7.58689
4800.00	0.16691	5.99113	13.32761	79.84737	3.55852	6.13401	0.00632561	8.19222
5000.00	0.16572	6.03415	14.36433	86.67657	3.77731	6.37900	0.00516746	8.82336
5200.00	0.16466	6.07302	15.44309	93.78820	4.00501	6.61651	0.00424751	9.47998
5400.00	0.16372	6.10813	16.56392	101.17464	4.24164	6.84693	0.00351186	10.16229
5600.00	0.16287	6.13996	17.72683	108.84201	4.48720	7.07058	0.00291985	10.87023
5800.00	0.16210	6.16886	18.93185	116.78794	4.74169	7.28782	0.00244055	11.60390
6000.00	0.16141	6.19525	20.17898	125.01344	5.00511	7.49893	0.00205026	12.36312

T1 = 750.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.53519	1.86849	1.27462	2.38160	1.29699	0.06877	0.93354134	0.90049
1000.00	0.39286	2.54541	1.50096	3.82056	1.54995	0.24642	0.78003556	0.99724
1200.00	0.31476	3.17699	1.75750	5.58357	1.84369	0.51409	0.59804697	1.12898
1400.00	0.26696	3.74595	2.04655	7.67376	2.18388	0.83556	0.43363192	1.29039
1600.00	0.23542	4.24780	2.37477	10.09179	2.57257	1.19038	0.30410452	1.47463
1800.00	0.21344	4.68514	2.74004	12.83740	3.01107	1.56299	0.20950824	1.68477
2000.00	0.19754	5.06225	3.14196	15.90536	3.49980	1.94312	0.14325673	1.91819
2200.00	0.18554	5.38976	3.58214	19.30687	4.03923	2.32317	0.09796273	2.17393
2400.00	0.17634	5.67099	4.06184	23.02926	4.62941	2.69916	0.06726176	2.45422
2600.00	0.16904	5.91571	4.57864	27.08500	5.27059	3.06768	0.04652894	2.75671
2800.00	0.16321	6.12721	5.13563	31.46710	5.96276	3.42729	0.03247491	3.08254
3000.00	0.15844	6.31143	5.73212	36.17786	6.70602	3.77681	0.02289559	3.43177
3200.00	0.15453	6.47137	6.36826	41.21132	7.50034	4.11590	0.01631128	3.80464
3400.00	0.15126	6.61102	7.04423	46.56950	8.34574	4.44432	0.01174509	4.20129
3600.00	0.14851	6.73375	7.76017	52.25516	9.24237	4.76209	0.00854772	4.62131
3800.00	0.14616	6.84186	8.51619	58.26675	10.19012	5.06945	0.00628590	5.06501
4000.00	0.14415	6.93745	9.31236	64.60405	11.18905	5.36671	0.00466948	5.53231
4200.00	0.14241	7.02217	10.14877	71.26636	12.23914	5.65425	0.00350261	6.02336
4400.00	0.14089	7.09757	11.02547	78.25404	13.34041	5.93245	0.00265196	6.53819
4600.00	0.13957	7.16491	11.94251	85.56696	14.49284	6.20174	0.00202590	7.07677
4800.00	0.13840	7.22531	12.89994	93.20599	15.69654	6.46251	0.00156087	7.63904
5000.00	0.13737	7.27960	13.89779	101.17035	16.95139	6.71518	0.00121237	8.22513
5200.00	0.13645	7.32854	14.93609	109.45977	18.25744	6.96014	0.00094897	8.83502
5400.00	0.13563	7.37277	16.01486	118.07396	19.61469	7.19776	0.00074826	9.46875
5600.00	0.13490	7.41292	17.13413	127.01393	21.02314	7.42840	0.00059413	10.12626
5800.00	0.13424	7.44942	18.29392	136.27964	22.48280	7.65242	0.00047489	10.80761
6000.00	0.13364	7.48276	19.49424	145.87070	23.99367	7.87011	0.00038199	11.51269

T1 = 750.00 ALPHA = 0.10

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.54718	1.82755	1.26437	2.31601	1.19745	0.06342	0.93978235	0.90404
1000.00	0.40147	2.49084	1.49475	3.72319	1.36948	0.23723	0.79269680	0.99969
1200.00	0.32161	3.10936	1.75877	5.44376	1.56855	0.49779	0.61417146	1.13289
1400.00	0.27271	3.66691	2.04104	7.48430	1.79895	0.81401	0.45025763	1.29223
1600.00	0.24050	4.15804	2.36727	9.84317	2.06215	1.16596	0.31924042	1.47694
1800.00	0.21602	4.58671	2.73144	12.52370	2.35900	1.53526	0.22235925	1.68704
2000.00	0.20188	4.95831	3.13319	15.52541	2.68986	1.91218	0.15372781	1.91956
2200.00	0.18953	5.27614	3.56991	18.83536	3.05486	2.29021	0.10616335	2.17656
2400.00	0.18018	5.55321	4.04723	22.47516	3.45432	2.66372	0.07364163	2.45632
2600.00	0.17282	5.79323	4.56741	26.43693	3.88825	3.03017	0.05143661	2.75875
2800.00	0.16686	6.00041	5.11970	30.71429	4.35667	3.38794	0.03623366	3.08466
3000.00	0.16180	6.18032	5.71434	35.31029	4.85964	3.73585	0.02577177	3.43423
3200.00	0.15750	6.33697	6.34754	40.22416	5.39715	4.07339	0.01851786	3.80733
3400.00	0.15446	6.47415	7.02146	45.45600	5.96931	4.40031	0.01344463	4.20388
3600.00	0.15154	6.59438	7.73823	51.00899	6.57605	4.71674	0.00986220	4.62414
3800.00	0.14925	6.70026	8.48994	56.87816	7.21741	5.02264	0.00730785	5.06803
4000.00	0.14719	6.79375	9.28269	63.06426	7.89339	5.31893	0.00546842	5.53568
4200.00	0.14542	6.87676	10.11656	69.56919	8.60401	5.60565	0.00413095	6.02692
4400.00	0.14387	6.95060	10.99160	76.39127	9.34924	5.88250	0.00314904	6.54202
4600.00	0.14252	7.01676	11.90487	83.53360	10.12913	6.15075	0.00242153	7.08063
4800.00	0.14133	7.07579	12.85639	90.99071	10.94365	6.41058	0.00187752	7.64331
5000.00	0.14027	7.12896	13.84422	98.76652	11.79282	6.66233	0.00146729	8.22963
5200.00	0.13934	7.17682	14.86937	106.85832	12.67663	6.90642	0.00115533	8.83994
5400.00	0.13850	7.22017	15.93468	115.26906	13.59509	7.14320	0.00091622	9.47396
5600.00	0.13775	7.25952	17.03876	123.99814	14.54820	7.37303	0.00073157	10.13174
5800.00	0.13708	7.29526	18.23704	133.04397	15.53596	7.59627	0.00058791	10.81344
6000.00	0.13647	7.32787	19.43773	142.40777	16.55837	7.81322	0.00047538	11.51894

T1 = 750.00 ALPHA = 0.20

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.55920	1.78826	1.26[illegible]	2.25689	1.14643	0.05[illegible]38	0.94552552	0.90762
1000.00	0.41[illegible]0	2.43845	1.48[illegible]49	3.62966	1.27692	0.22643	0.80473706	1.00219
1200.00	0.32[illegible]58	3.04338	1.74[illegible]93	5.30745	1.42763	0.46217	0.62964308	1.13564
1400.00	0.27[illegible]7	3.59102	2.03350	7.30233	1.60189	0.79450	0.46661110	1.29413
1600.00	0.24[illegible]1	4.07311	2.35[illegible]79	9.60761	1.[illegible]0087	1.14174	0.33440497	1.47876
1800.00	0.22[illegible]6	4.49324	2.72[illegible]65	12.22544	2.[illegible]0251[illegible]	1.50780	0.23536814	1.68891
2000.00	0.20[illegible]7	4.85516	3.12[illegible]29	15.14956	2.27513	1.88227	0.16432931	1.92241
2200.00	0.19338	5.17120	3.55[illegible]81	18.39816	2.55103	2.25704	0.11469966	2.17734
2400.00	0.18[illegible]1	5.44043	4.[illegible]3658	21.94436	2.85274	2.62869	0.08029628	2.45831
2600.00	0.17[illegible]9	5.67[illegible]60	4.54[illegible]17	25.81386	3.16057	2.99312	0.05[illegible]0565	2.76065
2800.00	0.170[illegible]9	5.87934	5.10177	29.99[illegible]4	3.53446	3.34896	0.04[illegible]23393	3.06644
3000.00	0.16516	6.05486	5.[illegible]9456	34.47977	3.91441	3.69531	0.02[illegible]85685	3.43651
3200.00	0.161[illegible]6	6.20885	5.32[illegible]64	39.28242	4.32051	4.03122	0.02090807	3.80948
3400.00	0.157[illegible]5	6.34305	6.99[illegible]69	44.39[illegible]0	4.75272	4.35674	0.01529957	4.20633
3600.00	0.15478	6.46064	7.71[illegible]27	49.81326	5.21107	4.67185	0.01130791	4.62699
3800.00	0.15233	6.56463	8.46[illegible]70	55.5478[illegible]	5.69559	4.97[illegible]66	0.00[illegible]44068	5.07082
4000.00	0.15024	6.65021	9.25[illegible]03	61.59015	6.20625	5.27157	0.00836059	5.53868
4200.00	0.14843	6.73725	10.[illegible]34	67.94075	6.74305	5.55[illegible]91	0.00463733	6.03047
4400.00	0.146[illegible]5	6.80965	10.95572	74.60467	7.3[illegible]604	5.83299	0.00371168	6.54573
4600.00	0.145[illegible]7	6.87429	11.[illegible]6720	81.57654	7.[illegible]9519	6.10027	0.00267214	7.08481
4800.00	0.14425	6.93232	12.[illegible]1583	88.86420	8.51051	6.35911	0.00224054	7.64758
5000.00	0.14318	6.98441	13.[illegible]1064	96.45917	9.15200	6.60995	0.00176132	8.23421
5200.00	0.14222	7.03126	14.[illegible]4264	104.36245	9.[illegible]1965	6.85317	0.00139475	8.84484
5400.00	0.14137	7.07382	15.[illegible]1469	112.57[illegible]4	10.51349	7.08910	0.00111222	9.47905
5600.00	0.140[illegible]0	7.11231	17.02738	121.10396	11.23349	7.31[illegible]13	0.00089281	10.13726
5800.00	0.139[illegible]1	7.14726	18.[illegible]8014	129.93[illegible]4	11.97967	7.54060	0.00072121	10.81939
6000.00	0.13929	7.17921	19.37[illegible]19	139.08415	12.75203	7.75[illegible]81	0.00058611	11.52525

T1 = 750.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.57103	1.75123	1.25577	2.19915	1.11542	0.05345	0.95098516	0.91076
1000.00	0.41675	2.38804	1.48217	3.53949	1.22067	0.21602	0.81816811	1.00476
1200.00	0.33552	2.98220	1.70719	5.18065	1.34201	0.46642	0.64494575	1.13744
1400.00	0.28424	3.51820	2.02593	7.12766	1.48212	0.77460	0.48206686	1.29605
1600.00	0.25056	3.99103	2.35127	9.37999	1.64204	1.11805	0.34946721	1.46082
1800.00	0.22719	4.40163	2.71117	11.93359	1.82225	1.46112	0.24639072	1.69157
2000.00	0.21009	4.75984	3.10450	14.80072	2.02314	1.85215	0.17523211	1.92362
2200.00	0.19737	5.06661	3.54556	17.96305	2.24472	2.22495	0.12341487	2.17992
2400.00	0.18753	5.33259	4.01993	21.43669	2.48715	2.59403	0.08722542	2.45987
2600.00	0.17977	5.56260	4.53791	25.21470	2.75051	2.95654	0.06202964	2.76261
2800.00	0.17356	5.76186	5.08478	29.29781	3.03477	3.31061	0.04446348	3.08894
3000.00	0.16849	5.93492	5.67579	33.68530	3.34001	3.65513	0.03215936	3.43847
3200.00	0.16434	6.08491	6.30608	38.37195	3.66614	3.98464	0.02348009	3.81225
3400.00	0.16085	6.21689	6.97590	43.36837	4.01334	4.31366	0.01731316	4.20898
3600.00	0.15792	6.33215	7.68529	48.66441	4.38157	4.62743	0.01288955	4.62982
3800.00	0.15543	6.43387	8.43441	54.26591	4.77076	4.93101	0.00968858	5.07405
4000.00	0.15329	6.52364	9.22332	60.16966	5.18095	5.22474	0.00735033	5.54215
4200.00	0.15144	6.60346	10.05212	66.37893	5.61217	5.50691	0.00562677	6.03383
4400.00	0.14983	6.67429	10.92083	72.88884	6.06439	5.78395	0.00434445	6.54946
4600.00	0.14842	6.73766	11.82953	79.70359	6.53763	6.05021	0.00338219	7.08877
4800.00	0.14718	6.79444	12.77825	86.82119	7.03189	6.30811	0.00265384	7.65193
5000.00	0.14608	6.84552	13.76704	94.24254	7.54717	6.55603	0.00209804	8.23885
5200.00	0.14511	6.89155	14.79590	101.96662	8.08345	6.80036	0.00167051	8.84966
5400.00	0.14423	6.93313	15.86487	109.99322	8.64081	7.03547	0.00133917	9.48435
5600.00	0.14345	6.97090	16.97398	118.32386	9.21915	7.26370	0.00108052	10.14282
5800.00	0.14275	7.00521	18.12324	126.95711	9.81854	7.48538	0.00087720	10.82521
6000.00	0.14212	7.03651	19.31266	135.89373	10.43894	7.70084	0.00071632	11.53143

T1 = 750.00 ALPHA = 0.40

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.58314	1.71516	1.24936	2.14284	1.09451	0.04894	0.95584321	0.91426
1000.00	0.42745	2.33946	1.47581	3.45259	1.18284	0.20602	0.82700157	1.00744
1200.00	0.34217	2.92251	1.73037	5.05701	1.28443	0.45128	0.65962821	1.13964
1400.00	0.29000	3.44831	2.01134	6.95985	1.40160	0.75509	0.49847837	1.29795
1600.00	0.25582	3.91212	2.34172	9.16111	1.53524	1.09479	0.36443786	1.48288
1800.00	0.23166	4.31639	2.70159	11.66111	1.68592	1.45433	0.26161293	1.69264
2000.00	0.21430	4.66643	3.09263	14.45959	1.85379	1.82279	0.18626081	1.92543
2200.00	0.20133	4.96685	3.53331	17.54943	2.03887	2.19318	0.13237607	2.18214
2400.00	0.19123	5.22933	4.00428	20.95016	2.24145	2.55974	0.09441275	2.46120
2600.00	0.18336	5.45378	4.51762	24.63611	2.46144	2.92044	0.06770194	2.76468
2800.00	0.17712	5.64899	5.06778	28.62745	2.69893	3.27271	0.04892659	3.09134
3000.00	0.17197	5.81844	5.65795	32.91467	2.95393	3.61559	0.03566555	3.44120
3200.00	0.16760	5.96661	6.28936	37.50225	3.22645	3.94838	0.02624168	3.81447
3400.00	0.16466	6.09531	6.95307	42.38117	3.51651	4.27107	0.01948859	4.21188
3600.00	0.16197	6.20862	7.66039	47.55995	3.82413	4.58346	0.01461148	4.63266
3800.00	0.15852	6.30839	8.40712	53.03542	4.14922	4.88579	0.01105703	5.07712
4000.00	0.15633	6.39654	9.19363	58.80741	4.49191	5.17851	0.00844316	5.54533
4200.00	0.15445	6.47472	10.01968	64.87586	4.85213	5.46136	0.00650371	6.03733
4400.00	0.15281	6.54423	10.88593	71.24014	5.22992	5.73535	0.00505190	6.55317
4600.00	0.15137	6.60642	11.79186	77.90195	5.62527	6.00061	0.00395588	7.09269
4800.00	0.15010	6.66209	12.73768	84.85969	6.03819	6.25755	0.00312146	7.65611
5000.00	0.14898	6.71209	13.72343	92.11230	6.46864	6.50657	0.00248112	8.24343
5200.00	0.14799	6.75725	14.74915	99.66364	6.91667	6.74802	0.00198594	8.85449
5400.00	0.14710	6.79805	15.81484	107.51015	7.38228	6.98228	0.00160015	9.48946
5600.00	0.14630	6.83505	16.92058	115.65296	7.86542	7.20971	0.00129747	10.14829
5800.00	0.14559	6.86870	18.06632	124.09265	8.36613	7.43062	0.00105837	10.83101
6000.00	0.14494	6.89937	19.25211	132.82744	8.88442	7.64533	0.00086829	11.53761

T1 = 750.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.59587	1.68046	1.24284	2.08868	1.07945	0.04470	0.96038140	0.91777
1000.00	0.43620	2.29254	1.46437	3.36864	1.15562	0.19642	0.83724870	1.01141
1200.00	0.34942	2.86513	1.72451	4.93807	1.24304	0.43652	0.67383367	1.14184
1400.00	0.29576	3.38109	2.01172	6.79842	1.34374	0.73598	0.51396658	1.29988
1600.00	0.26067	3.83632	2.33116	8.95074	1.45853	1.07193	0.37930516	1.46491
1800.00	0.23623	4.23308	2.69193	11.39212	1.58795	1.42822	0.27462249	1.69432
2000.00	0.21850	4.57663	3.08775	14.13140	1.73208	1.79384	0.19744726	1.92712
2200.00	0.20520	4.87325	3.52115	17.15949	1.89104	2.16140	0.14160823	2.18323
2400.00	0.19512	5.12762	3.99251	20.47209	2.06492	2.52631	0.10160462	2.46380
2600.00	0.18695	5.34901	4.50132	24.08204	2.25381	2.88476	0.07361597	2.76683
2800.00	0.18048	5.54067	5.05078	27.98469	2.45775	3.23520	0.05362186	3.09352
3000.00	0.17522	5.70709	5.63913	32.17734	2.67662	3.57638	0.03938595	3.44352
3200.00	0.17088	5.85204	6.26457	36.66052	2.91053	3.90769	0.02918878	3.81725
3400.00	0.16725	5.97908	6.93127	41.43646	3.15959	4.22882	0.02183173	4.21426
3600.00	0.16421	6.08991	7.63531	46.49834	3.42384	4.53992	0.01647786	4.63544
3800.00	0.16161	6.18779	8.37963	51.85263	3.70277	4.84096	0.01255031	5.08012
4000.00	0.15938	6.27450	9.16393	57.49917	3.99695	5.13229	0.00964361	5.54833
4200.00	0.15746	6.35101	9.98763	63.43149	4.30621	5.41427	0.00747293	6.04071
4400.00	0.15578	6.41929	10.85103	69.65586	4.63054	5.68718	0.00583654	6.55670
4600.00	0.15432	6.48015	11.75414	76.16870	4.96993	5.95144	0.00459737	7.09665
4800.00	0.15302	6.53490	12.69710	82.97424	5.32441	6.20741	0.00364735	7.66014
5000.00	0.15189	6.58393	13.67982	90.06692	5.69395	6.45552	0.00291428	8.24775
5200.00	0.15087	6.62807	14.70239	97.44847	6.07857	6.69611	0.00234441	8.85931
5400.00	0.14997	6.66814	15.76483	105.12219	6.47827	6.92953	0.00189826	9.49451
5600.00	0.14916	6.70443	16.86716	113.08464	6.89305	7.15615	0.00154649	10.15369
5800.00	0.14842	6.73741	18.00940	121.33677	7.32291	7.37629	0.00126732	10.83677
6000.00	0.14776	6.76750	19.19155	129.87891	7.76783	7.59026	0.00104436	11.54371

T1 = 750.00 ALPHA = 0.60

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.60712	1.64711	1.23734	2.03638	1.06807	0.04073	0.96450502	0.92131
1000.00	0.44492	2.24759	1.46291	3.28809	1.13511	0.16710	0.84701680	1.01417
1200.00	0.35579	2.80987	1.71662	4.82345	1.21185	0.42214	0.68756125	1.14405
1400.00	0.30154	3.31635	2.00307	6.64289	1.30015	0.71726	0.52913738	1.30185
1600.00	0.26572	3.76336	2.32457	8.74822	1.40061	1.04947	0.39404617	1.48694
1800.00	0.24050	4.15290	2.68225	11.13911	1.51413	1.40252	0.28806060	1.69603
2000.00	0.22271	4.49020	3.07784	13.81560	1.64041	1.76531	0.20677111	1.92883
2200.00	0.20918	4.78059	3.50986	16.77443	1.77965	2.13052	0.15098024	2.18560
2400.00	0.19870	5.03273	3.97886	20.02450	1.93201	2.49275	0.10947695	2.46483
2600.00	0.19024	5.24820	4.48700	23.54660	2.09743	2.84955	0.07976552	2.76898
2800.00	0.18314	5.43054	5.03377	27.36627	2.27602	3.19811	0.05854485	3.09563
3000.00	0.17696	5.60020	5.61932	31.46965	2.46777	3.53753	0.04331861	3.44560
3200.00	0.17113	5.74275	6.24383	35.85679	2.67271	3.86726	0.03232970	3.81932
3400.00	0.17045	5.86667	6.90743	40.52360	2.89074	4.18708	0.02434145	4.21705
3600.00	0.16734	5.97594	7.61031	45.47877	3.12207	4.49675	0.01849267	4.63798
3800.00	0.16470	6.07176	8.35253	50.71474	3.36654	4.79660	0.01417240	5.08305
4000.00	0.16242	6.15681	9.13420	56.23753	3.62421	5.08674	0.01095537	5.55154
4200.00	0.16047	6.23181	9.95534	62.03986	3.89507	5.36761	0.00853651	6.04422
4400.00	0.15876	6.29883	10.81610	68.12681	4.17913	5.63946	0.00670835	6.56045
4600.00	0.15727	6.35859	11.71644	74.50013	4.47639	5.90272	0.00531079	7.10060
4800.00	0.15595	6.41230	12.65649	81.15715	4.78684	6.15773	0.00423527	7.66440
5000.00	0.15479	6.46037	13.63619	88.09485	5.11052	6.40493	0.00340105	8.25233
5200.00	0.15376	6.50384	14.65562	95.31777	5.44741	6.64463	0.00274938	8.86398
5400.00	0.15283	6.54306	15.71480	102.82325	5.79747	6.87722	0.00223664	9.49960
5600.00	0.15200	6.57877	16.81375	110.61376	6.16075	7.10303	0.00183052	10.15896
5800.00	0.15126	6.61112	17.95247	118.68589	6.53724	7.32239	0.00150672	10.84239
6000.00	0.15059	6.64056	19.13099	127.04087	6.92693	7.53562	0.00124697	11.54978

T1 = 750.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.61921	1.61497	1.22973	1.98596	1.05917	0.03701	0.96627669	0.92487
1000.00	0.45353	2.20493	1.45648	3.21143	1.11919	0.17793	0.85643012	1.01657
1200.00	0.36277	2.75657	1.70869	4.71287	1.18750	0.40815	0.70061127	1.14630
1400.00	0.30731	3.25401	1.99541	6.49307	1.26613	0.69596	0.54399212	1.30384
1600.00	0.27044	3.69223	2.31592	8.55096	1.35569	1.02761	0.40557132	1.46935
1800.00	0.24586	4.07572	2.67256	10.89259	1.45655	1.37722	0.30131046	1.69774
2000.00	0.22691	4.40700	3.06593	13.51153	1.56884	1.73715	0.22021408	1.93055
2200.00	0.21368	4.69300	3.49664	16.40975	1.69274	2.09974	0.16058081	2.18712
2400.00	0.20250	4.93826	3.96506	19.58049	1.82824	2.46018	0.11731150	2.46754
2600.00	0.19413	5.15131	4.47167	23.03497	1.97543	2.81479	0.08614510	2.77102
2800.00	0.18739	5.33633	5.01674	26.77095	2.13425	3.16140	0.06369083	3.09770
3000.00	0.18150	5.49750	5.60050	30.78674	2.30481	3.49909	0.04746078	3.44759
3200.00	0.17741	5.63673	6.22304	35.07756	2.48707	3.82738	0.03565695	3.82187
3400.00	0.17365	5.75886	6.88460	39.64747	2.68105	4.14569	0.02702295	4.21945
3600.00	0.17048	5.86564	7.58529	44.49411	2.88675	4.45406	0.02065725	4.64080
3800.00	0.16778	5.96018	8.32529	49.61961	3.10417	4.75263	0.01592704	5.08587
4000.00	0.16547	6.04342	9.10447	55.02214	3.33336	5.04162	0.01238260	5.55476
4200.00	0.16347	6.11724	9.92318	60.70206	3.57427	5.32134	0.00970498	6.04746
4400.00	0.16174	6.18292	10.78118	66.65917	3.82691	5.59215	0.00766568	6.56403
4600.00	0.16022	6.24159	11.67875	72.89395	4.09130	5.85441	0.00610019	7.10443
4800.00	0.15887	6.29430	12.61588	79.40607	4.36743	6.10846	0.00488919	7.66852
5000.00	0.15769	6.34144	13.59255	86.19637	4.65529	6.35475	0.00394518	8.25679
5200.00	0.15664	6.38409	14.60864	93.26416	4.95491	6.59359	0.00320420	8.86876
5400.00	0.15570	6.42262	15.66475	100.60886	5.26627	6.82534	0.00261849	9.50467
5600.00	0.15485	6.45767	16.76031	108.23250	5.58937	7.05033	0.00215247	10.16431
5800.00	0.15410	6.48939	17.89552	116.13101	5.92422	7.26893	0.00177928	10.84814
6000.00	0.15341	6.51838	19.07041	124.30829	6.27081	7.48141	0.00147866	11.55574

T1 = 750.00 ALPHA = 0.80

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.63132	1.56397	1.22306	1.93730	1.05200	0.03355	0.97171547	0.92847
1000.00	0.46235	2.16288	1.44990	3.13597	1.10621	0.16936	0.86514830	1.01952
1200.00	0.36967	2.70510	1.70972	4.60602	1.16795	0.39455	0.71358502	1.14861
1400.00	0.31308	3.19405	1.98771	6.34885	1.23882	0.68098	0.55853740	1.30578
1600.00	0.27583	3.62540	2.30734	8.36502	1.31952	1.00572	0.42308645	1.49097
1800.00	0.24998	4.00037	2.66279	10.65214	1.41034	1.35253	0.31449172	1.69993
2000.00	0.23112	4.32681	3.05499	13.21838	1.51150	1.70945	0.23175704	1.93229
2200.00	0.21702	4.60779	3.48436	16.05520	1.62305	2.06951	0.17052931	2.18906
2400.00	0.20621	4.84951	3.95135	19.16212	1.74504	2.42758	0.12539671	2.46898
2600.00	0.19769	5.05836	4.45636	22.54186	1.87753	2.78017	0.09275038	2.77281
2800.00	0.19085	5.23963	4.99971	26.19767	2.02054	3.12510	0.06905499	3.09972
3000.00	0.18525	5.39818	5.58165	30.13076	2.17411	3.46110	0.05160717	3.44977
3200.00	0.18068	5.53452	6.20223	34.32636	2.33817	3.78792	0.03917351	3.82441
3400.00	0.17685	5.65446	6.86173	38.79940	2.51281	4.10479	0.02987388	4.22219
3600.00	0.17362	5.75965	7.56025	43.54446	2.69801	4.41182	0.02297455	4.64368
3800.00	0.17087	5.85250	8.29790	48.56344	2.89376	4.70908	0.01781687	5.08872
4000.00	0.16851	5.93424	9.07472	53.85163	3.10005	4.99690	0.01392913	5.55783
4200.00	0.16648	6.00685	9.89063	59.41274	3.31696	5.27549	0.01097595	6.05066
4400.00	0.16471	6.07113	10.74623	65.24179	3.54441	5.54528	0.00871426	6.56768
4600.00	0.16316	6.12893	11.64104	71.34714	3.78243	5.80649	0.00696950	7.10811
4800.00	0.16180	6.18056	12.57526	77.72213	4.03102	6.05961	0.00561282	7.67261
5000.00	0.16059	6.22686	13.54891	84.36715	4.29018	6.30499	0.00455026	8.26117
5200.00	0.15952	6.26883	14.56206	91.28704	4.55991	6.54294	0.00371239	8.87329
5400.00	0.15856	6.30662	15.61470	98.47596	4.84022	6.77386	0.00304704	9.50956
5600.00	0.15770	6.34097	16.70687	105.93771	5.13110	6.99806	0.00251536	10.16963
5800.00	0.15693	6.37209	17.83856	113.66895	5.43254	7.21589	0.00208780	10.85382
6000.00	0.15624	6.40055	19.00983	121.67329	5.74457	7.42762	0.00174198	11.56178

T1 = 750.00 ALPHA = 0.90

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.64335	1.55436	1.21458	1.89069	1.04611	0.03024	0.97491838	0.93188
1000.00	0.47187	2.12284	1.44733	3.06396	1.09564	0.16096	0.87352648	1.02218
1200.00	0.37656	2.65565	1.69573	4.50329	1.15190	0.38125	0.72594379	1.15083
1400.00	0.31885	3.13624	1.98100	6.20975	1.21643	0.66337	0.57275921	1.30773
1600.00	0.28089	3.56016	2.29870	8.16372	1.28984	0.98441	0.43736394	1.49295
1800.00	0.25448	3.92961	2.65411	10.42549	1.37245	1.32778	0.32776538	1.70121
2000.00	0.23532	4.24950	3.04404	12.93566	1.46445	1.68210	0.24338364	1.93402
2200.00	0.22096	4.52564	3.47206	15.71331	1.56585	2.03968	0.18023228	2.19082
2400.00	0.20941	4.76389	3.93763	18.75840	1.67681	2.39536	0.13367701	2.47045
2600.00	0.20123	4.96943	4.44107	22.06961	1.79724	2.74591	0.09957865	2.77416
2800.00	0.19429	5.14693	4.98268	25.64549	1.92736	3.08917	0.07463269	3.10165
3000.00	0.18850	5.30211	5.56278	29.49442	2.06691	3.42357	0.05635406	3.45209
3200.00	0.18395	5.43630	6.18142	33.60410	2.21609	3.74680	0.04268091	3.82668
3400.00	0.18003	5.55455	6.83890	37.98702	2.37484	4.06417	0.03290066	4.22428
3600.00	0.17675	5.65776	7.53524	42.63253	2.54325	4.36988	0.02544668	4.64609
3800.00	0.17396	5.74836	8.27054	47.54262	2.72122	4.66600	0.01964402	5.09184
4000.00	0.17155	5.82907	9.04493	52.72350	2.90881	4.95256	0.01559834	5.56077
4200.00	0.16949	5.90015	9.85853	58.16675	3.10599	5.23008	0.01235453	6.05408
4400.00	0.16769	5.96356	10.71129	63.87742	3.31275	5.49877	0.00985818	6.57104
4600.00	0.16611	6.02000	11.60330	69.85185	3.52914	5.75904	0.00792204	7.11213
4800.00	0.16472	6.07076	12.53461	76.09467	3.75519	6.01120	0.00640971	7.67685
5000.00	0.16350	6.11634	13.50525	82.60275	3.99081	6.25564	0.00521979	8.26553
5200.00	0.16240	6.15748	14.51525	89.37735	4.23604	6.49273	0.00427714	8.87807
5400.00	0.16143	6.19463	15.56463	96.41716	4.49089	6.72281	0.00352541	9.51460
5600.00	0.16056	6.22835	16.65341	103.72324	4.75534	6.94621	0.00292216	10.17503
5800.00	0.15977	6.25898	17.78160	111.29475	5.02941	7.16325	0.00243509	10.85942
6000.00	0.15906	6.28700	18.94924	119.13382	5.31310	7.37423	0.00203959	11.56760

T1 = 750.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.65546	1.52564	1.20961	1.84543	1.04116	0.02720	0.97779842	0.93543
1000.00	0.47940	2.08421	1.45473	2.99445	1.08680	0.15285	0.88146674	1.02484
1200.00	0.38342	2.60807	1.68472	4.40431	1.13850	0.36824	0.73789266	1.15296
1400.00	0.32483	3.08043	1.87226	6.07542	1.19771	0.64613	0.58664974	1.30969
1600.00	0.28594	3.49718	2.29003	8.00865	1.26506	0.96347	0.45145826	1.49493
1800.00	0.25914	3.86043	2.64336	10.20452	1.34082	1.30363	0.34094008	1.70295
2000.00	0.23953	4.17489	3.03508	12.66277	1.42519	1.65515	0.25507539	1.93577
2200.00	0.22450	4.44636	3.45974	15.38333	1.51814	2.01023	0.19027407	2.19252
2400.00	0.21371	4.67916	3.92377	18.35999	1.61982	2.36400	0.14208891	2.47314
2600.00	0.20485	4.88171	4.42566	21.60482	1.73025	2.71242	0.10657655	2.77669
2800.00	0.19772	5.05753	4.96565	25.11304	1.84946	3.05358	0.08041966	3.10340
3000.00	0.19196	5.20955	5.54390	28.88122	1.97742	3.38640	0.06110166	3.45424
3200.00	0.18721	5.34169	6.16062	32.90812	2.11417	3.71005	0.04677704	3.82883
3400.00	0.18324	5.45736	6.81601	37.19740	2.25971	4.02408	0.03609609	4.22702
3600.00	0.17990	5.55875	7.51116	41.74708	2.41404	4.32847	0.02807663	4.64906
3800.00	0.17705	5.64822	8.24620	46.55936	2.57714	4.62325	0.02201268	5.09461
4000.00	0.17460	5.72722	9.01120	51.63204	2.74912	4.90869	0.01739202	5.56406
4200.00	0.17250	5.79727	9.82623	56.96522	2.92986	5.18506	0.01384451	6.05737
4400.00	0.17066	5.85954	10.67833	62.55832	3.11941	5.45270	0.01110031	6.57464
4600.00	0.16906	5.91515	11.56557	68.41208	3.31776	5.71194	0.00896195	7.11578
4800.00	0.16765	5.96491	12.49397	74.52536	3.52492	5.96316	0.00728359	7.68090
5000.00	0.16640	6.00966	13.46159	80.69949	3.74089	6.20670	0.00595721	8.26987
5200.00	0.16529	6.05009	14.46944	87.53536	3.96567	6.44291	0.00490191	8.88272
5400.00	0.16429	6.08671	15.51457	94.43271	4.19926	6.67214	0.00405690	9.51935
5600.00	0.16341	6.11974	16.59995	101.58729	4.44166	6.89475	0.00337593	10.18026
5800.00	0.16261	6.14984	17.72463	109.00365	4.69287	7.11102	0.00282400	10.86498
6000.00	0.16188	6.17733	18.88864	116.68134	4.95289	7.32125	0.00237411	11.57356

T1 = 800.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.55910	1.78890	1.24591	2.22881	1.26715	0.05467	0.94479791	0.88711
1000.00	0.40787	2.45296	1.45943	3.57993	1.50631	0.21588	0.80583409	0.97438
1200.00	0.32484	3.07846	1.70017	5.23391	1.78214	0.46326	0.62923064	1.09509
1400.00	0.27422	3.64675	1.97291	7.19472	2.10067	0.76808	0.46390495	1.24360
1600.00	0.24089	4.15122	2.27945	9.46249	2.46429	1.10837	0.33009708	1.41708
1800.00	0.21772	4.59311	2.62073	12.03729	2.87415	1.46851	0.23026862	1.61220
2000.00	0.20093	4.97680	2.99734	14.91720	3.33083	1.83785	0.15915906	1.83032
2200.00	0.18833	5.30985	3.40986	18.10594	3.83475	2.20895	0.10961620	2.07058
2400.00	0.17868	5.59647	3.85854	21.59421	4.38594	2.57735	0.07597482	2.33251
2600.00	0.17102	5.84714	4.34486	25.39916	4.98477	2.93929	0.05290335	2.61565
2800.00	0.16492	6.06348	4.86996	29.50461	5.63115	3.29337	0.03712854	2.92142
3000.00	0.15992	6.25307	5.42513	33.92376	6.32525	3.63502	0.02630437	3.24830
3200.00	0.15583	6.41740	6.02148	38.64225	7.06699	3.97297	0.01861739	3.59793
3400.00	0.15242	6.56076	6.65515	43.66301	7.85643	4.29785	0.01359779	3.96986
3600.00	0.14953	6.68740	7.32734	48.99419	8.69365	4.61246	0.00992735	4.36351
3800.00	0.14708	6.79882	8.03804	54.62913	9.57865	4.91709	0.00732043	4.77945
4000.00	0.14496	6.89769	8.78750	60.57201	10.51143	5.21191	0.00545127	5.21737
4200.00	0.14316	6.98521	9.56562	66.81780	11.49191	5.49731	0.00409776	5.67775
4400.00	0.14158	7.06303	10.38251	73.36726	12.52021	5.77365	0.00310640	6.16046
4600.00	0.14020	7.13276	11.24724	80.22386	13.59631	6.04124	0.00237860	6.66528
4800.00	0.13896	7.19524	12.14482	87.38487	14.72021	6.30052	0.00183536	7.19246
5000.00	0.13790	7.25155	13.08031	94.85281	15.89192	6.55182	0.00142751	7.74177
5200.00	0.13694	7.30226	14.05372	102.62396	17.11142	6.79557	0.00111872	8.31352
5400.00	0.13609	7.34805	15.06507	110.69866	18.37872	7.03210	0.00088307	8.90772
5600.00	0.13532	7.38971	16.11439	119.08040	19.69384	7.26175	0.00070188	9.52408
5800.00	0.13463	7.42754	17.20169	127.76629	21.05678	7.48487	0.00056152	10.16287
6000.00	0.13401	7.46213	18.32699	136.75616	22.46749	7.70174	0.00045204	10.82387

T1 = 600.00 ALPHA = 0.10

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.57144	1.74998	1.20[illegible]82	2.16965	1.18105	0.04986	0.95234869	0.89053
1000.00	0.41667	2.39999	1.45[illegible]44	3.48629	1.34714	0.20549	0.81772345	0.97714
1200.00	0.33196	3.01245	1.69377	5.10239	1.53825	0.44776	0.64501480	1.09772
1400.00	0.28016	3.56934	1.96483	7.01671	1.75872	0.74806	0.48067426	1.24591
1600.00	0.24609	4.06362	2.27149	9.23046	2.01027	1.08449	0.34575243	1.41905
1800.00	0.22250	4.49437	2.61[illegible]8	11.73765	2.29365	1.44170	0.24369465	1.61513
2000.00	0.20521	4.87317	2.98727	14.55747	2.60954	1.80762	0.17030276	1.83209
2200.00	0.19259	5.19775	3.39[illegible]45	17.66429	2.95791	2.17443	0.11867696	2.07301
2400.00	0.18249	5.47968	3.84[illegible]60	21.07375	3.33905	2.54236	0.08293442	2.33467
2600.00	0.17454	5.72594	4.32[illegible]66	24.79139	3.75304	2.90213	0.05830781	2.61760
2800.00	0.16840	5.93611	4.85[illegible]14	28.80[illegible]81	4.19999	3.25430	0.04129972	2.92330
3000.00	0.16334	6.12221	5.40757	33.1063[illegible]	4.67961	3.59747	0.02951198	3.25128
3200.00	0.15915	6.28354	6.00[illegible]11	37.71449	5.19262	3.93079	0.02129299	3.60091
3400.00	0.15565	6.42461	6.63[illegible]88	42.62011	5.73841	4.25412	0.01551412	3.97261
3600.00	0.15270	6.54885	7.30[illegible]03	47.82642	6.31725	4.56734	0.01141601	4.36625
3800.00	0.15019	6.65609	8.10[illegible]63	53.32881	6.92905	4.87867	0.00848216	4.78233
4000.00	0.14805	6.75445	8.75[illegible]75	59.12675	7.57367	5.16435	0.00636214	5.22084
4200.00	0.14619	6.84034	9.53[illegible]50	65.22612	8.25175	5.44861	0.00481628	5.68129
4400.00	0.14458	6.91667	10.35[illegible]91	71.62144	8.96265	5.72385	0.00367831	6.16416
4600.00	0.14316	6.98496	11.21[illegible]03	78.31574	9.70669	5.99[illegible]43	0.00283317	6.66923
4800.00	0.14192	7.04614	12.10[illegible]89	85.30600	10.4835[illegible]	6.24674	0.00219996	7.19668
5000.00	0.14082	7.10130	13.13955	92.59775	11.29362	6.49912	0.00172158	7.74629
5200.00	0.13984	7.15086	14.01[illegible]00	100.1835[illegible]	12.13669	6.74199	0.00135717	8.31846
5400.00	0.13897	7.19580	15.01[illegible]29	108.06867	13.01281	6.97767	0.00107746	8.91283
5600.00	0.13819	7.23666	16.06444	116.25293	13.92199	7.20650	0.00086115	9.52942
5800.00	0.13748	7.27368	17.14[illegible]45	124.73232	14.86422	7.42884	0.00069266	10.16858
6000.00	0.13685	7.30753	18.27[illegible]34	133.51119	15.83951	7.64496	0.00056053	10.82996

T1 = 800.00 ALPHA = 0.20

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	P1'/P1	(PT2-P2)/P1
800.00	0.584 2	1.71226	[illegible]	2.1127[illegible]	1.13542	[illegible]	.95734290	0.69423
1000.00	0.425/0	2.34938	[illegible]	3.40[illegible]	1.26692	[illegible]	.92[illegible]7569	0.97995
1200.00	0.339 7	2.94922	[illegible]	4.97[illegible]	1.4[illegible]	[illegible]	.90[illegible]7[illegible]	1.10030
1400.00	[illegible]	3.49503	[illegible]	6.6457[illegible]	1.[illegible]	[illegible]	.[illegible]12433	1.24825
1600.00	0.251 8	3.97963	[illegible]	9.00797	1.[illegible]	[illegible]	[illegible]	1.42103
1800.00	0.227 6	4.40411	[illegible]	11.46[illegible]	1.[illegible]	[illegible]	[illegible]	1.61627
2000.00	[illegible]	4.77322	[illegible]	14.21[illegible]	[illegible]	1.77796	[illegible]	1.83411
2200.00	0.196 5	5.09306	[illegible]	17.25[illegible]	[illegible]	[illegible]	[illegible]	2.07421
2400.00	0.180 0	5.36773	[illegible]	20.57[illegible]	[illegible]	[illegible]	[illegible]	2.33600
2600.00	[illegible]	5.60950	[illegible]	24.20[illegible]	[illegible]	[illegible]	[illegible]	2.61963
2800.00	[illegible]	5.81714	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.92555
3000.00	0.166 2	5.99016	[illegible]	32.53[illegible]	[illegible]	[illegible]	[illegible]	3.25341
3200.00	0.162 5	6.15503	[illegible]	36.82[illegible]	[illegible]	[illegible]	[illegible]	3.60335
3400.00	0.158 8	6.29410	[illegible]	41.02[illegible]	[illegible]	[illegible]	[illegible]	3.97527
3600.00	[illegible]	6.41553	[illegible]	46.76[illegible]	[illegible]	[illegible]	[illegible]	4.36905
3800.00	[illegible]	6.52269	[illegible]	52.07[illegible]	[illegible]	[illegible]	[illegible]	4.78550
4000.00	[illegible]	6.61747	[illegible]	57.74[illegible]	[illegible]	[illegible]	[illegible]	5.22393
4200.00	0.149 2	6.70131	[illegible]	63.69[illegible]	[illegible]	[illegible]	[illegible]	5.68485
4400.00	0.147 7	6.77026	[illegible]	69.94[illegible]	[illegible]	[illegible]	[illegible]	6.16785
4600.00	[illegible]	6.84309	[illegible]	76.45[illegible]	[illegible]	[illegible]	[illegible]	6.67327
4800.00	0.144 6	6.90324	[illegible]	83.21[illegible]	[illegible]	[illegible]	[illegible]	7.20074
5000.00	0.143 4	6.95714	[illegible]	90.43[illegible]	[illegible]	[illegible]	[illegible]	7.75083
5200.00	0.14274	7.00575	[illegible]	97.84[illegible]	[illegible]	[illegible]	[illegible]	8.32319
5400.00	[illegible]	7.04952	[illegible]	105.54[illegible]	[illegible]	[illegible]	[illegible]	8.91781
5600.00	0.141 5	7.08977	[illegible]	113.53[illegible]	[illegible]	[illegible]	[illegible]	9.53462
5800.00	0.140 3	7.12605	[illegible]	121.82[illegible]	[illegible]	[illegible]	[illegible]	10.17430
6000.00	0.139 8	7.15923	[illegible]	130.39[illegible]	[illegible]	[illegible]	[illegible]	10.83595

T1 = 800.00 ALPHA = 0.30

UN1	U2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.59662	1.67611	1.22732	2.05712	1.10712	0.04130	0.96191035	0.89794
1000.00	0.43477	2.30005	1.44128	3.31561	1.21076	0.18590	0.83961616	0.98286
1200.00	0.34618	2.88864	1.68066	4.85539	1.32934	0.41786	0.67506120	1.10282
1400.00	0.29207	3.42376	1.95157	6.68177	1.46591	0.70929	0.51326113	1.25054
1600.00	0.25646	3.89898	2.25551	8.79420	1.62153	1.03502	0.37678081	1.42303
1800.00	0.23101	4.31385	2.59370	11.18883	1.79677	1.38844	0.27101098	1.61891
2000.00	0.21356	4.67555	2.96492	13.87199	1.99197	1.74898	0.19308404	1.83687
2200.00	0.20045	4.98866	3.37565	16.83966	2.20723	2.11246	0.13718590	2.07718
2400.00	0.19009	5.26054	3.82027	20.09667	2.44282	2.47366	0.09767906	2.33678
2600.00	0.18140	5.49743	4.30117	23.64541	2.69867	2.82926	0.06991673	2.62180
2800.00	0.17542	5.70045	4.81945	27.46782	2.97477	3.17783	0.05037691	2.92812
3000.00	0.17012	5.87822	5.37248	31.58065	3.27124	3.51743	0.03660509	3.25601
3200.00	0.16575	6.03322	5.96739	35.97842	3.58803	3.84760	0.02683539	3.60576
3400.00	0.16210	6.16914	6.59732	40.66274	3.92524	4.16794	0.01965573	3.97761
3600.00	0.15913	6.28798	7.25436	45.62784	4.28285	4.47851	0.01462707	4.37197
3800.00	0.15643	6.39266	7.95164	50.87684	4.66086	4.77933	0.01117393	4.78869
4000.00	0.15419	6.48549	8.69124	56.41234	5.05924	5.07057	0.00849701	5.22740
4200.00	0.15225	6.56794	9.47523	62.23276	5.47804	5.35257	0.00651784	5.68831
4400.00	0.15057	6.64137	10.28966	68.33743	5.91724	5.62566	0.00504172	6.17159
4600.00	0.14910	6.70700	11.14157	74.72647	6.37684	5.89020	0.00393138	6.67713
4800.00	0.14780	6.76572	12.03199	81.39831	6.85686	6.14657	0.00308920	7.20513
5000.00	0.14665	6.81872	12.95798	88.35689	7.35731	6.39511	0.00244540	7.75525
5200.00	0.14564	6.86643	13.92254	95.59819	7.87815	6.63620	0.00194936	8.32786
5400.00	0.14473	6.90950	14.92470	103.12229	8.41941	6.87019	0.00156434	8.92295
5600.00	0.14391	6.94873	15.96450	110.93294	8.98109	7.09748	0.00126341	9.54019
5800.00	0.14318	6.98433	17.04193	119.02642	9.56319	7.31817	0.00102656	10.17992
6000.00	0.14252	7.01678	18.15701	127.40371	10.16571	7.53260	0.00083895	10.84207

T1 = 800.00 ALPHA = 0.40

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.60925	1.64135	1.22[illegible]97	2.00[illegible]	1.08784	0.03743	0.96607983	0.90167
1000.00	0.44390	2.25273	1.48[illegible]09	3.23[illegible]	1.17526	0.17672	0.84964560	0.98588
1200.00	0.35380	2.83045	1.67[illegible]35	4.73917	1.27507	0.40351	0.66932796	1.10533
1400.00	0.29883	3.35535	1.94440	6.52415	1.36981	0.69050	0.52906576	1.25281
1600.00	0.26148	3.82149	2.24749	8.58674	1.52051	1.01542	0.39210847	1.42504
1800.00	0.23641	4.22993	2.56472	10.93320	1.66765	1.36223	0.28479784	1.62036
2000.00	0.21810	4.58509	2.95[illegible]62	13.55720	1.83153	1.71983	0.20480740	1.83814
2200.00	0.20440	4.89235	3.36[illegible]27	16.45926	2.01225	2.08675	0.14863476	2.07831
2400.00	0.19367	5.15816	3.80750	19.63972	2.20995	2.43983	0.10544969	2.34047
2600.00	0.18555	5.38949	4.28[illegible]89	23.10414	2.42467	2.79355	0.07610456	2.62410
2800.00	0.17893	5.58866	4.80[illegible]55	26.83990	2.65641	3.14024	0.05528249	2.93049
3000.00	0.17352	5.76295	5.35[illegible]90	30.85996	2.90523	3.47815	0.04048396	3.25849
3200.00	0.16906	5.91512	5.94[illegible]99	35.15942	3.17115	3.80671	0.02990336	3.60835
3400.00	0.16534	6.04813	6.56[illegible]98	39.73[illegible]7	3.45415	4.12564	0.02228522	3.98058
3600.00	0.16221	6.16501	7.23[illegible]80	44.59149	3.75425	4.43479	0.01675811	4.37495
3800.00	0.15955	6.26782	7.93[illegible]13	49.72341	4.07151	4.73431	0.01271425	4.79172
4000.00	0.15726	6.35908	8.67[illegible]43	55.13636	4.40567	5.02433	0.00973113	5.23045
4200.00	0.15528	6.43991	9.44[illegible]09	60.82556	4.75735	5.30520	0.00751100	5.69163
4400.00	0.15357	6.51172	10.25[illegible]61	66.79076	5.12594	5.57725	0.00584473	6.17530
4600.00	0.15206	6.57621	11.10[illegible]32	73.03742	5.51164	5.84075	0.00458407	6.68096
4800.00	0.15074	6.63356	11.99[illegible]03	79.56010	5.91454	6.09615	0.00362231	7.20916
5000.00	0.14958	6.68561	12.91[illegible]17	86.35914	6.33453	6.34379	0.00288288	7.75982
5200.00	0.14853	6.73249	13.87[illegible]79	93.43675	6.77165	6.58398	0.00231019	8.33259
5400.00	0.14761	6.77480	14.87[illegible]69	100.79476	7.22592	6.81713	0.00186334	8.92787
5600.00	0.14678	6.81314	15.91[illegible]50	108.42775	7.69731	7.04354	0.00151228	9.54560
5800.00	0.14603	6.84810	16.98[illegible]65	116.34056	8.18585	7.26352	0.00123466	10.18557
6000.00	0.14535	6.87995	18.10[illegible]33	124.52436	8.69152	7.47739	0.00101370	10.84801

T1 = 800.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.62142	1.60793	1.21454	1.95290	1.07384	0.03382	0.96987735	0.90543
1000.00	0.45300	2.20746	1.42589	3.15429	1.14955	0.16761	0.85919358	0.96878
1200.00	0.36043	2.77447	1.66781	4.62796	1.23572	0.38953	0.70308856	1.10785
1400.00	0.30400	3.28950	1.93720	6.37243	1.33467	0.67212	0.54452455	1.25510
1600.00	0.26658	3.74702	2.23943	8.39120	1.44733	0.99322	0.40729057	1.42705
1800.00	0.24115	4.14674	2.57562	10.68042	1.57411	1.33696	0.29546744	1.62289
2000.00	0.22243	4.49575	2.94650	13.24720	1.71531	1.69156	0.21658197	1.84047
2200.00	0.20840	4.79846	3.35285	16.08854	1.87103	2.04969	0.15666158	2.08005
2400.00	0.19706	5.05917	3.79471	19.19868	2.04133	2.40652	0.11345229	2.34242
2600.00	0.18920	5.28549	4.27258	22.58267	2.22625	2.75830	0.08253696	2.62652
2800.00	0.18244	5.48131	4.78669	26.23734	2.42591	3.10307	0.06042819	2.93277
3000.00	0.17691	5.65266	5.33732	30.17010	2.64024	3.43921	0.04458792	3.26063
3200.00	0.17236	5.80170	5.92459	34.37269	2.86924	3.76624	0.03317204	3.61084
3400.00	0.16857	5.93222	6.54865	38.84799	3.11305	4.08370	0.02469353	3.98322
3600.00	0.16538	6.04677	7.20962	43.59491	3.37158	4.39151	0.01864473	4.37791
3800.00	0.16266	6.14779	7.90760	48.61429	3.64481	4.68973	0.01438995	4.79471
4000.00	0.16032	6.23738	8.64269	53.90777	3.93281	4.97754	0.01108224	5.23360
4200.00	0.15832	6.31648	9.41491	59.46905	4.23555	5.25431	0.00860489	5.69523
4400.00	0.15656	6.38713	10.22435	65.30427	4.55304	5.52926	0.00673484	6.17891
4600.00	0.15503	6.45034	11.07105	71.41256	4.88529	5.79176	0.00531165	6.68487
4800.00	0.15368	6.50688	11.95504	77.79376	5.23229	6.04419	0.00421986	7.21335
5000.00	0.15249	6.55780	12.87636	84.44854	5.59404	6.29288	0.00337603	7.76410
5200.00	0.15143	6.60362	13.83502	91.36121	5.97053	6.53222	0.00271897	8.33738
5400.00	0.15048	6.64524	14.83107	98.55596	6.36183	6.76450	0.00220381	8.93280
5600.00	0.14964	6.68288	15.86451	106.02056	6.76785	6.99110	0.00179709	9.55078
5800.00	0.14887	6.71708	16.93535	113.75686	7.18864	7.20931	0.00147391	10.19122
6000.00	0.14818	6.74836	18.04363	121.76490	7.62419	7.42243	0.00121553	10.85391

T1 = 800.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.63462	1.57575	1.20104	1.90356	1.06319	0.03047	0.97332534	0.90923
1000.00	0.46199	2.16455	1.42269	3.07946	1.13006	0.15905	0.86536975	0.99134
1200.00	0.36758	2.72052	1.66023	4.51946	1.20569	0.37593	0.71634466	1.11039
1400.00	0.30997	3.22608	1.92997	6.22623	1.29284	0.65414	0.55962895	1.25741
1600.00	0.27218	3.67533	2.23136	8.20096	1.39163	0.97142	0.42230497	1.42907
1800.00	0.24577	4.06890	2.56659	10.44319	1.50327	1.31162	0.31226068	1.62444
2000.00	0.22670	4.41115	2.93-49	12.95297	1.62724	1.66343	0.22852498	1.84217
2200.00	0.21251	4.70569	3.34[illegible]0	15.72319	1.76400	2.01952	0.16660901	2.08297
2400.00	0.20152	4.96240	3.78182	18.76691	1.91358	2.37392	0.12165185	2.34515
2600.00	0.19285	5.18533	4.25[illegible]25	22.08043	2.07598	2.72350	0.08920612	2.62896
2800.00	0.18574	5.37804	4.77[illegible]79	25.65751	2.25125	3.06631	0.06560816	2.93503
3000.00	0.18028	5.54681	5.31975	29.50762	2.43951	3.40064	0.04891384	3.26259
3200.00	0.17565	5.69305	5.[illegible]0519	33.61656	2.64062	3.72611	0.03664382	3.61298
3400.00	0.17180	5.82089	6.52731	37.99479	2.85469	4.04215	0.02768221	3.98569
3600.00	0.16854	5.93320	7.18624	42.63735	3.[illegible]0165	4.34662	0.02109063	4.38064
3800.00	0.16577	6.03229	7.86267	47.54667	3.52158	4.64558	0.01620484	4.79768
4000.00	0.16340	6.12006	8.[illegible]1488	52.72375	3.57445	4.93321	0.01255438	5.23690
4200.00	0.16135	6.19789	9.38473	58.16556	3.84025	5.21162	0.00980442	5.69857
4400.00	0.15956	6.26731	10.19169	63.87444	4.11905	5.48169	0.00771647	6.18241
4600.00	0.15800	6.32915	11.03577	69.84701	4.41075	5.74320	0.00611836	6.68883
4800.00	0.15662	6.38468	11.91704	76.08646	4.71547	5.99666	0.00488602	7.21751
5000.00	0.15541	6.43458	12.83552	82.59128	5.03311	6.24244	0.00392856	7.76863
5200.00	0.15433	6.47965	13.79124	89.36249	5.36371	6.48088	0.00317938	8.34204
5400.00	0.15336	6.52047	14.78423	96.40026	5.70726	6.71232	0.00258910	8.93778
5600.00	0.15250	6.55743	15.81449	103.70230	6.06374	6.93710	0.00212090	9.55605
5800.00	0.15172	6.59107	16.88205	111.27089	6.43325	7.15552	0.00174720	10.19668
6000.00	0.15102	6.62166	17.98692	119.10367	6.81569	7.36790	0.00144709	10.85984

T1 = 800.00 ALPHA = 0.70

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.64726	1.54497	1.20151	1.85630	1.05483	0.02730	0.97650383	0.91290
1000.00	0.47121	2.12218	1.41434	3.00572	1.11471	0.15093	0.87661199	0.99450
1200.00	0.37475	2.66847	1.65468	4.41529	1.18249	0.36272	0.72909884	1.11298
1400.00	0.31594	3.16512	1.92271	6.08560	1.26113	0.63652	0.57439721	1.25966
1600.00	0.27729	3.60629	2.22125	8.01749	1.34841	0.95001	0.43713941	1.43111
1800.00	0.25045	3.99287	2.55249	10.21174	1.44773	1.28691	0.32596577	1.62647
2000.00	0.23104	4.32822	2.92016	12.665 7	1.55825	1.63600	0.24050214	1.84455
2200.00	0.21651	4.61864	3.32484	15.37936	1.68013	1.98931	0.17779279	2.08476
2400.00	0.20574	4.87226	3.76807	18.36396	1.81345	2.34114	0.13012685	2.34625
2600.00	0.19650	5.08897	4.24891	21.59719	1.95817	2.68909	0.09610516	2.63126
2800.00	0.18944	5.27859	4.75767	25.09961	2.11446	3.02997	0.07141630	2.93729
3000.00	0.18308	5.44417	5.30212	28.86562	2.28214	3.36261	0.05345166	3.26500
3200.00	0.17897	5.58738	5.88573	32.86581	2.46137	3.68857	0.04030986	3.61584
3400.00	0.17513	5.71325	6.50594	37.17005	2.65213	4.00110	0.03064997	3.98847
3600.00	0.17170	5.82410	7.16286	41.71724	2.85442	4.30511	0.02349884	4.38310
3800.00	0.16879	5.92111	7.85652	46.51934	3.06823	4.60104	0.01816243	4.80058
4000.00	0.16647	6.00720	8.58705	51.58429	3.29358	4.88829	0.01415186	5.24010
4200.00	0.16437	6.08387	9.35454	56.91194	3.53044	5.16573	0.01111380	5.70169
4400.00	0.16256	6.15165	10.15899	62.49454	3.77891	5.43459	0.00879340	6.18617
4600.00	0.16097	6.21246	11.00048	68.33995	4.03888	5.69507	0.00700842	6.69274
4800.00	0.15957	6.26704	11.87903	74.44836	4.31041	5.94755	0.00562482	7.22159
5000.00	0.15833	6.31604	12.79468	80.81175	4.59347	6.19241	0.00454446	7.77294
5200.00	0.15722	6.36032	13.74746	87.43817	4.88808	6.42996	0.00369504	8.34660
5400.00	0.15624	6.40020	14.73738	94.32333	5.19424	6.66057	0.00302261	8.94279
5600.00	0.15536	6.43660	15.76447	101.46955	5.51195	6.88453	0.00248691	9.56130
5800.00	0.15457	6.46956	16.82873	108.87486	5.84121	7.10218	0.00205743	10.20232
6000.00	0.15385	6.49970	17.93020	116.54044	6.18201	7.31379	0.00171109	10.86570

T1 = 800.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.659[illegible]	1.51520	1.19[illegible]	1.01[illegible]	1.[illegible]	0.02439	0.97[illegible]	0.91668
1000.00	0.480[illegible]	2.08190	1.41[illegible]	2.93[illegible]	1.10235	0.14295	0.[illegible]	0.99735
1200.00	0.3[illegible]	2.61841	1.[illegible]	4.31[illegible]	1.16364	0.34[illegible]	0.74140196	1.11551
1400.00	0.321 1	3.10641	1.[illegible]	5.95[illegible]	1.23374	0.01420	.5[illegible]1573	1.26189
1600.00	0.26250	3.53961	2.21[illegible]	7.84119	1.31341	0.92[illegible]	0.45176659	1.43312
1800.00	0.25513	3.91956	2.[illegible]	9.98852	1.40300	1.26200	0.33[illegible]424	1.62850
2000.00	0.23[illegible]	4.24946	2.[illegible]	12.39[illegible]	1.5[illegible]	1.66864	0.25202531	1.84616
2200.00	0.22046	4.53599	3.31[illegible]	15.05[illegible]	1.61263	1.95925	0.18717386	2.08593
2400.00	0.209 7	4.78312	3.75[illegible]	17.96[illegible]	1.73263	2.30921	0.13[illegible]5602	2.34859
2600.00	0.20014	4.99644	4.[illegible]	21.13277	1.86333	2.65563	0.10[illegible]2645	2.63330
2800.00	0.192[illegible]	5.18275	4.73[illegible]	24.56[illegible]	2.[illegible]423	2.99403	0.07724650	2.93952
3000.00	0.187 9	5.34514	5.20[illegible]	28.24[illegible]	2.15544	3.32502	0.[illegible]20181	3.20747
3200.00	0.182[illegible]8	5.48607	5.[illegible]	32.18[illegible]	2.3171	3.64736	0.04417785	3.61631
3400.00	0.176[illegible]6	5.60976	6.[illegible]	36.37[illegible]	2.48911	3.96[illegible]41	0.03[illegible]049	3.99103
3600.00	0.17[illegible]8	5.71616	7.[illegible]	40.82[illegible]	2.67153	4.26415	0.02[illegible]760	4.36621
3800.00	0.171[illegible]9	5.81416	7.[illegible]	45.53[illegible]	2.[illegible]431	4.55[illegible]	0.02026608	4.80330
4000.00	0.16924	5.89647	[illegible]	50.48[illegible]	3.[illegible]751	4.[illegible]	0.01567810	5.24323
4200.00	0.16740	5.97359	9.32[illegible]	55.69977	3.20111	5.12[illegible]12	0.01[illegible]587	5.70521
4400.00	0.165[illegible]5	6.04039	10.12[illegible]	61.16[illegible]	3.[illegible]512	5.38766	0.00997012	6.16968
4600.00	0.163[illegible]3	6.10019	10.96[illegible]	66.88[illegible]	3.73454	5.64731	0.00799598	6.69637
4800.00	0.162[illegible]0	6.15372	11.[illegible]02	72.86[illegible]	3.96437	5.89[illegible]84	0.00[illegible]44020	7.22557
5000.00	0.161[illegible]4	6.20181	12.75[illegible]	79.09[illegible]	4.2396[illegible]	6.14279	0.00[illegible]2743	7.77722
5200.00	0.16012	6.24524	13.70[illegible]	85.58[illegible]	4.51525	6.37946	0.00426948	8.35122
5400.00	0.15912	6.28450	14.69[illegible]	92.32[illegible]	4.78151	6.60922	0.00[illegible]777	8.94767
5600.00	0.158[illegible]2	6.32020	15.71[illegible]	99.31[illegible]	5.[illegible]773	6.83237	0.00[illegible]630	9.56644
5800.00	0.15742	6.35256	16.77[illegible]	106.56[illegible]	5.36467	7.04924	0.00240762	10.20781
6000.00	0.15669	6.38215	17.87[illegible]	114.07[illegible]	5.[illegible]19[illegible]	7.26010	0.00[illegible]1032	10.87147

T1 = 600.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
800.00	0.67270	1.48654	1.18021	1.76632	1.04247	0.02169	0.98194211	0.92045
1000.00	0.48946	2.04306	1.40361	2.86746	1.09217	0.13527	0.89257775	0.99930
1200.00	0.38926	2.57032	1.64126	4.21855	1.14812	0.33725	0.75327859	1.11794
1400.00	0.32759	3.04979	1.90812	5.81932	1.21205	0.60237	0.60267746	1.26412
1600.00	0.28771	3.47571	2.20498	7.67882	1.28462	0.90533	0.46622896	1.43514
1800.00	0.25961	3.84896	2.53423	9.77339	1.36622	1.23467	0.35324516	1.63051
2000.00	0.23950	4.17354	2.90168	12.12700	1.45701	1.58164	0.26477274	1.84817
2200.00	0.22451	4.45414	3.30885	14.72927	1.55709	1.93003	0.19762220	2.08821
2400.00	0.21255	4.69811	3.74833	17.58660	1.66655	2.27749	0.14759315	2.35028
2600.00	0.20376	4.90780	4.21524	20.68756	1.78537	2.62125	0.11057210	2.63500
2800.00	0.19645	5.09041	4.72401	24.04201	1.91362	2.95549	0.08329285	2.94163
3000.00	0.19048	5.24980	5.26683	27.64976	2.05132	3.28780	0.06316263	3.26985
3200.00	0.18557	5.38660	5.84784	31.50665	2.19845	3.60549	0.04824537	3.62056
3400.00	0.18148	5.51025	6.46921	35.61348	2.35503	3.92008	0.03713422	3.99339
3600.00	0.17814	5.61684	7.11403	39.96956	2.52111	4.22244	0.02860435	4.38662
3800.00	0.17511	5.71055	7.80139	44.57396	2.69662	4.51562	0.02251622	4.80643
4000.00	0.17250	5.79369	8.53141	49.42832	2.88161	4.79966	0.01773630	5.24628
4200.00	0.17044	5.86734	9.29412	54.53172	3.07609	5.07469	0.01407490	5.70861
4400.00	0.16855	5.93319	10.09960	59.88665	3.27999	5.34155	0.01125015	6.19311
4600.00	0.16690	5.99164	10.94864	65.48785	3.49332	5.60002	0.00905429	6.70032
4800.00	0.16544	6.04433	11.83298	71.34169	3.71627	5.85057	0.00733574	7.22965
5000.00	0.16416	6.09160	12.75297	77.44230	3.94862	6.09356	0.00598110	7.78153
5200.00	0.16302	6.13423	13.70984	83.79254	4.19045	6.32938	0.00490624	8.35586
5400.00	0.16210	6.17287	14.70484	90.39322	4.44179	6.55829	0.00404794	8.95250
5600.00	0.16119	6.20790	15.73838	97.24286	4.70255	6.78063	0.00335826	9.57160
5800.00	0.16026	6.23970	16.81107	104.34047	4.97282	6.99672	0.00280075	10.21327
6000.00	0.15952	6.26876	17.92373	111.68915	5.25257	7.20683	0.00234756	10.87724

T1 = 800.00 ALPHA = 1.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.49851	2.00559	1.39717	2.80215	1.08364	0.12790	0.89980911	1.00226
1200.00	0.39620	2.52398	1.60455	4.12557	1.13513	0.32498	0.76471965	1.12027
1400.00	0.33348	2.99510	1.80177	5.69306	1.19369	0.50585	0.61657664	1.26637
1600.00	0.29298	3.41326	2.19477	7.50497	1.26058	0.68820	0.48039600	1.43744
1800.00	0.26449	3.78060	2.53007	9.56563	1.33542	1.21512	0.36678257	1.63252
2000.00	0.24391	4.09991	2.89540	11.87087	1.41874	1.55542	0.27696173	1.85016
2200.00	0.22850	4.37637	3.29538	14.42141	1.51062	1.90894	0.20023756	2.08984
2400.00	0.21656	4.61561	3.73044	17.21825	1.61106	2.24626	0.15459175	2.35217
2600.00	0.20737	4.82237	4.20091	20.25633	1.72011	2.56785	0.11511841	2.63663
2800.00	0.19994	5.00146	4.70786	23.54227	1.83758	2.92330	0.08954994	2.94357
3000.00	0.19368	5.15789	5.24917	27.07462	1.96419	3.25096	0.06832944	3.27215
3200.00	0.18887	5.29478	5.82769	30.85475	2.09914	3.57800	0.05250938	3.62272
3400.00	0.18472	5.41350	6.44474	34.87256	2.24265	3.88028	0.04064522	3.99630
3600.00	0.18122	5.51829	7.09256	39.13868	2.39523	4.16128	0.03170360	4.39168
3800.00	0.17823	5.61066	7.77079	43.64977	2.55629	4.47313	0.02491651	4.80944
4000.00	0.17566	5.69266	8.50357	48.40796	2.72684	4.75593	0.01972930	5.24919
4200.00	0.17346	5.76486	9.26489	53.40501	2.90446	5.03006	0.01573401	5.71193
4400.00	0.17154	5.82939	10.06187	58.64871	3.09157	5.29567	0.01263647	6.19678
4600.00	0.16986	5.88722	10.89456	64.13860	3.28741	5.55306	0.01021768	6.70384
4800.00	0.16839	5.93871	11.76493	69.86856	3.49192	5.80270	0.00831508	7.23376
5000.00	0.16718	5.98522	12.67289	75.84518	3.70512	6.04479	0.00680903	7.78585
5200.00	0.16592	6.02714	13.61862	82.06561	3.92703	6.27970	0.00560884	8.36040
5400.00	0.16488	6.06513	14.59976	88.53136	4.15763	6.50776	0.00464644	8.95728
5600.00	0.16395	6.09946	15.61432	95.23921	4.39692	6.72930	0.00386992	9.57681
5800.00	0.16311	6.13076	16.66672	102.19217	4.64492	6.94461	0.00323982	10.21870
6000.00	0.16236	6.15933	17.75997	109.38953	4.90161	7.15396	0.00272565	10.88303

T1 = 650.00 ALPHA = 0.

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.42256	2.36656	1.42264	3.36795	1.46751	0.18774	0.82862836	0.95304
1200.00	0.33498	2.98521	1.54977	4.92491	1.72755	0.41812	0.65426617	1.06678
1400.00	0.28154	3.55191	1.70644	6.77151	2.02704	0.70720	0.49302406	1.20449
1600.00	0.24624	4.05615	2.19873	8.90219	2.36837	1.03395	0.35558937	1.36658
1800.00	0.22274	4.50375	2.51583	11.33067	2.75302	1.36173	0.25114302	1.54990
2000.00	0.20447	4.89061	2.87110	14.03659	3.18127	1.74106	0.17553409	1.75502
2200.00	0.19123	5.22944	3.25422	17.03869	3.65374	2.10328	0.12205539	1.97963
2400.00	0.18105	5.52346	3.65847	20.32624	4.17064	2.46367	0.08510476	2.22587
2600.00	0.17302	5.77968	4.13714	23.91155	4.73203	2.81935	0.05964491	2.49190
2800.00	0.16665	6.00057	4.62448	27.77356	5.33793	3.16798	0.04208645	2.77950
3000.00	0.16144	6.19421	5.15470	31.92931	5.98852	3.50797	0.02995767	3.08733
3200.00	0.15716	6.36314	5.71594	36.37142	6.68373	3.83578	0.02151994	3.41611
3400.00	0.15359	6.51084	6.31233	41.09666	7.42375	4.16003	0.01560707	3.76597
3600.00	0.15057	6.64125	6.94402	46.11781	8.20847	4.47151	0.01143009	4.13633
3800.00	0.14802	6.75588	7.61106	51.41944	9.03795	4.77341	0.00845150	4.52788
4000.00	0.14582	6.85785	8.31354	57.01314	9.91219	5.06581	0.00630877	4.93995
4200.00	0.14392	6.94817	9.05156	62.89176	10.83120	5.34909	0.00475248	5.37313
4400.00	0.14228	7.02846	9.82510	69.05531	11.79498	5.62354	0.00361184	5.82751
4600.00	0.14083	7.10056	10.63425	75.50928	12.80357	5.88944	0.00276852	6.30256
4800.00	0.13957	7.16509	11.47904	82.24837	13.85695	6.14721	0.00213944	6.79872
5000.00	0.13844	7.22334	12.35953	89.27684	14.95513	6.39717	0.00166627	7.31571
5200.00	0.13744	7.27579	13.27565	96.59082	16.09811	6.63970	0.00130742	7.85383
5400.00	0.13655	7.32321	14.22751	104.19104	17.28589	6.87513	0.00103316	8.41303
5600.00	0.13575	7.36638	15.21511	112.08026	18.51847	7.10378	0.00082199	8.99307
5800.00	0.13503	7.40555	16.23845	120.25476	19.79586	7.32600	0.00065820	9.59429
6000.00	0.13438	7.44133	17.29756	128.71678	21.11806	7.54206	0.00053030	10.21649

T1 = 850.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.43145	2.31508	1.41702	3.28051	1.32649	0.17812	0.83993634	0.95595
1200.00	0.34236	2.92088	1.64364	4.80080	1.51024	0.40336	0.87367633	1.06935
1400.00	0.28758	3.47609	1.89473	6.60362	1.72160	0.68790	0.90964095	1.20673
1600.00	0.25176	3.97206	2.18729	8.68807	1.96241	1.01039	0.93177512	1.36814
1800.00	0.22642	4.40875	2.50739	11.05447	2.23357	1.35512	0.95025801	1.55203
2000.00	0.20685	4.78802	2.86160	13.69662	2.53551	1.71145	0.96712044	1.75719
2200.00	0.19526	5.12132	3.24360	16.63200	2.86862	2.07883	0.98160647	1.98120
2400.00	0.18462	5.40769	3.66459	19.83814	3.23291	2.42936	0.99263888	2.22814
2600.00	0.17672	5.65873	4.12482	23.33557	3.62801	2.78273	0.99554019	2.49422
2800.00	0.17018	5.87621	4.61767	27.11089	4.05571	3.12930	0.99867798	2.78154
3000.00	0.16479	6.06474	5.13724	31.16200	4.51423	3.46771	0.99951082	3.09004
3200.00	0.16050	6.23056	5.69778	35.50030	5.00428	3.79686	0.99972712	3.41882
3400.00	0.15685	6.37539	6.29936	40.11629	5.52585	4.11661	0.99975040	3.76876
3600.00	0.15377	6.50343	6.92215	45.01760	6.07898	4.42666	0.99990218	4.13915
3800.00	0.15115	6.61585	7.58616	50.19551	6.66355	4.72726	0.99976115	4.53073
4000.00	0.14892	6.71522	8.28251	55.65240	7.27971	5.01851	0.99983889	4.94340
4200.00	0.14697	6.80396	9.02128	61.39399	7.92745	5.30060	0.99986746	5.37662
4400.00	0.14529	6.88272	9.79448	67.41284	8.60673	5.57395	0.99989991	5.83111
4600.00	0.14382	6.95315	10.60917	73.71159	9.31754	5.83885	0.99990654	6.30657
4800.00	0.14252	7.01644	11.44741	80.29193	10.06001	6.09564	0.99995581	6.80294
5000.00	0.14137	7.07344	12.32119	87.15525	10.83401	6.34466	0.99992071	7.32023
5200.00	0.14035	7.12482	13.23257	94.29954	11.63954	6.58630	0.99998070	7.85864
5400.00	0.13944	7.17134	14.18355	101.71508	12.47673	6.82087	0.99998628	8.41803
5600.00	0.13863	7.21360	15.16516	109.41716	13.34547	7.04871	0.99999505	8.99842
5800.00	0.13789	7.25199	16.18740	117.39821	14.24577	7.27013	0.99999913	9.59992
6000.00	0.13723	7.28706	17.24631	125.66035	15.17765	7.48543	0.99999531	10.22240

T1 = 850.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.44139	2.26555	1.41113	3.19699	1.24961	0.16890	0.85040333	0.95897
1200.00	0.34973	2.85933	1.68748	4.80210	1.39182	0.38897	0.88654143	1.07186
1400.00	0.29302	3.40339	1.89297	6.44254	1.55517	0.66903	0.92630429	1.20897
1600.00	0.25710	3.88950	2.07576	8.07832	1.74115	0.98761	0.96769903	1.37042
1800.00	0.23191	4.31765	2.24964	10.78969	1.95057	1.32894	0.27942799	1.55398
2000.00	0.21315	4.69145	2.39115	13.37606	2.18372	1.68195	0.19915060	1.75835
2200.00	0.19953	5.01426	3.53563	16.23030	2.44072	2.03939	0.14133411	1.98420
2400.00	0.18850	5.29659	3.62252	19.36705	2.72203	2.39532	0.10044896	2.23036
2600.00	0.18042	5.54272	4.11944	22.78356	3.02744	2.74656	0.07171201	2.49653
2800.00	0.17375	5.75541	4.59878	26.46753	3.35714	3.09130	0.05151715	2.78436
3000.00	0.16838	5.94182	5.12181	30.43286	3.71113	3.42772	0.03730560	3.09204
3200.00	0.16395	6.10327	5.57469	34.66410	4.08933	3.75542	0.02724146	3.42159
3400.00	0.16012	6.24550	6.27138	39.17414	4.49189	4.07364	0.02007414	3.77150
3600.00	0.15696	6.37092	6.90024	43.96080	4.91881	4.38232	0.01492869	4.14210
3800.00	0.15430	6.48091	7.56722	49.01657	5.37005	4.68164	0.01120218	4.53401
4000.00	0.15211	6.57663	8.26145	54.34997	5.84562	4.97164	0.00846148	4.94663
4200.00	0.15013	6.66541	8.99494	59.95595	6.34557	5.25201	0.00647738	5.36026
4400.00	0.14851	6.74286	9.76384	65.83636	6.86989	5.52404	0.00498648	5.83471
4600.00	0.14690	6.81186	10.56705	71.98831	7.41854	5.78871	0.00387276	6.31044
4800.00	0.14548	6.87392	11.40775	78.41597	7.99157	6.04451	0.00302996	6.80702
5000.00	0.14431	6.92971	12.28164	85.11677	8.58897	6.29262	0.00238614	7.32465
5200.00	0.14326	6.98016	13.19148	92.09264	9.21074	6.53335	0.00189563	7.86320
5400.00	0.14233	7.02566	14.13958	99.34014	9.85688	6.76708	0.00151484	8.42297
5600.00	0.14150	7.06707	15.12720	106.86255	10.52740	6.99410	0.00121836	9.00368
5800.00	0.14075	7.10474	16.15435	114.65677	11.22229	7.21473	0.00098593	9.60542
6000.00	0.14007	7.13912	17.19105	122.72891	11.94155	7.42927	0.00080251	10.22819

T1 = 650.00 ALPHA = 0.30

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.45090	2.21779	1.40817	3.11637	1.20119	0.16009	0.86024363	0.96211
1200.00	0.35711	2.80028	1.53129	4.50613	1.31727	0.37495	0.70287110	1.07435
1400.00	0.29957	3.33360	1.66619	6.28795	1.45042	0.65055	0.54241025	1.21120
1600.00	0.26252	3.80925	2.17235	8.27427	1.60192	0.96549	0.40337803	1.37316
1800.00	0.23640	4.23010	2.49144	10.53497	1.77247	1.30320	0.29362592	1.55596
2000.00	0.21756	4.59651	2.84160	13.06145	1.96231	1.65330	0.21126282	1.76042
2200.00	0.20344	4.91550	3.22521	15.85839	2.17164	2.00770	0.15138804	1.98543
2400.00	0.19287	5.19011	3.64151	18.91541	2.40054	2.36168	0.10852497	2.23251
2600.00	0.18411	5.43158	4.09704	22.25351	2.64924	2.71681	0.07815448	2.49874
2800.00	0.17751	5.63995	4.58389	25.85287	2.91786	3.05366	0.05661567	2.78676
3000.00	0.17176	5.82219	5.10529	29.72400	3.20573	3.38843	0.04132624	3.09495
3200.00	0.16717	5.98201	5.66144	33.86679	3.51365	3.71429	0.03041912	3.42377
3400.00	0.16337	6.12104	6.25139	38.27115	3.84134	4.03109	0.02258248	3.77407
3600.00	0.16016	6.24385	6.87733	42.94727	4.18864	4.33541	0.01691493	4.14491
3800.00	0.15744	6.35161	7.53924	47.88656	4.55615	4.63645	0.01274069	4.53710
4000.00	0.15510	6.44743	8.23758	53.09787	4.94329	4.92522	0.00974146	4.94990
4200.00	0.15308	6.53246	8.98266	58.57436	5.35024	5.20506	0.00748764	5.38378
4400.00	0.15132	6.60846	9.73819	64.32139	5.77704	5.47620	0.00580252	5.83841
4600.00	0.14978	6.67630	10.53499	70.33477	6.22365	5.73901	0.00453196	6.31419
4800.00	0.14843	6.73696	11.37209	76.61326	6.69019	5.99386	0.00356624	6.81119
5000.00	0.14724	6.79176	12.24455	83.16220	7.17639	6.24102	0.00282668	7.32896
5200.00	0.14617	6.84116	13.15234	89.97760	7.68252	6.48087	0.00225593	7.86788
5400.00	0.14523	6.88580	14.09559	97.05946	8.20868	6.71374	0.00181228	8.42790
5600.00	0.14437	6.92643	15.07423	104.41064	8.75423	6.93993	0.00146505	9.00881
5800.00	0.14361	6.96336	16.08828	112.02856	9.31992	7.15978	0.00119144	9.61086
6000.00	0.14292	6.99695	17.13777	119.91219	9.90548	7.37357	0.00097445	10.23412

T1 = 650.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.46037	2.17216	1.[illegible]17	3.03926	1.16784	0.15156	0.86958877	0.96619
1200.00	0.36430	2.74356	1.[illegible]05	4.45835	1.26001	0.36133	0.71866738	1.07685
1400.00	0.30012	3.26665	1.[illegible]38	6.13927	1.37841	0.63247	0.55914262	1.21345
1600.00	0.26779	3.73427	2.[illegible]61	8.08624	1.50825	0.94330	0.41906702	1.37498
1800.00	0.24119	4.14614	2.46193	10.29040	1.65006	1.27786	0.30763078	1.55795
2000.00	0.22174	4.50580	2.[illegible]04	12.76061	1.81[illegible]13	1.62497	0.22352734	1.76229
2200.00	0.20758	4.81744	3.21[illegible]42	15.49011[illegible]	1.98063	1.97700	0.16157372	1.98808
2400.00	0.19663	5.08826	3.[illegible]51	18.46314	2.17965	2.32841	0.11665900	2.23444
2600.00	0.18779	5.32500	4.[illegible]64	21.74549	2.38929	2.67545	0.08485890	2.50084
2800.00	0.18016	5.52925	4.[illegible]99	25.26[illegible]	2.61252	3.01643	0.06196732	2.76902
3000.00	0.17519	5.70612	5.[illegible]61	29.04740	2.85842	3.34944	0.04556500	3.09734
3200.00	0.17063	5.86414	5.[illegible]21	33.09250	3.11799	3.67382	0.03360137	3.42679
3400.00	0.16683	6.00130	6.[illegible]34	37.40230	3.39424	3.98901	0.02527699	3.77674
3600.00	0.16365	6.12165	6.[illegible]34	41.97246	3.68719	4.29495	0.01906419	4.14779
3800.00	0.16050	6.22743	7.[illegible]52	46.80[illegible]15	3.99862	4.59169	0.01450103	4.54012
4000.00	0.15819	6.32167	8.[illegible]31	51.89649	4.32313	4.87922	0.01112422	4.95291
4200.00	0.15613	6.40503	8.[illegible]35	57.25041	4.66524	5.15791	0.00860352	5.38699
4400.00	0.15454	6.47924	9.[illegible]51	62.86486	5.02601	5.42501	0.00670689	5.84217
4600.00	0.15277	6.54584	10.[illegible]86	68.74349	5.40251	5.68979	0.00526864	6.31812
4800.00	0.15139	6.60548	11.[illegible]41	74.88249	5.79571	5.94364	0.00416921	6.81520
5000.00	0.15017	6.65908	12.[illegible]21	81.28207	6.20563	6.18689	0.00332240	7.33342
5200.00	0.14918	6.70761	13.[illegible]20	87.94[illegible]16	6.63227	6.42483	0.00266547	7.87248
5400.00	0.14812	6.75146	14.[illegible]69	94.86877	7.07565	6.66[illegible]84	0.00215215	8.43270
5600.00	0.14725	6.79116	15.[illegible]23	102.05231	7.53575	6.88624	0.00174832	9.01411
5800.00	0.14647	6.82743	16.[illegible]80	109.49972	8.01257	7.10526	0.00142859	9.61638
6000.00	0.14576	6.86044	17.[illegible]49	117.20715	8.50612	7.31831	0.00117384	10.23985

T1 = 850.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.46973	2.12886	1.39718	2.96505	1.14357	0.14318	0.87854898	0.96890
1200.00	0.37190	2.68888	1.51176	4.35285	1.22853	0.34509	0.72993325	1.07938
1400.00	0.31229	3.20214	1.67253	5.99604	1.32585	0.51481	0.57349015	1.21574
1600.00	0.27314	3.66112	1.85499	7.89781	1.43641	0.92176	0.43447941	1.37724
1800.00	0.24618	4.06376	2.47432	10.05096	1.56071	1.25331	0.32192155	1.56062
2000.00	0.22640	4.41700	2.82240	12.46651	1.69906	1.59738	0.23563735	1.76486
2200.00	0.21172	4.72331	3.20463	15.13645	1.85163	1.94671	0.17195351	1.99065
2400.00	0.20056	4.99114	3.62152	18.07052	2.01844	2.29540	0.12544594	2.23598
2600.00	0.19147	5.22277	4.07126	21.25882	2.19964	2.64548	0.09161700	2.50281
2800.00	0.18440	5.42287	4.55407	24.69615	2.39513	2.97962	0.06756523	2.79124
3000.00	0.17881	5.59892	5.07231	28.39949	2.60504	3.31160	0.05007643	3.09944
3200.00	0.17316	5.75187	5.62561	32.35436	2.82934	3.63360	0.03739957	3.42911
3400.00	0.16970	5.88573	6.21733	36.56449	3.06805	3.94742	0.02815850	3.77968
3600.00	0.16656	6.00390	6.83443	41.03329	3.32117	4.25198	0.02137931	4.15083
3800.00	0.16372	6.10796	7.49185	45.75753	3.58875	4.54736	0.01636711	4.54315
4000.00	0.16126	6.20021	8.18419	50.73751	3.87076	4.83372	0.01263304	4.95633
4200.00	0.15918	6.28202	8.90999	55.97278	4.16720	5.11126	0.00982878	5.39061
4400.00	0.15736	6.35501	9.67162	61.46453	4.47809	5.38025	0.00770636	5.84587
4600.00	0.15575	6.42045	10.46873	67.21393	4.80342	5.64100	0.00608753	6.32195
4800.00	0.15435	6.47885	11.30071	73.21584	5.14319	5.89369	0.00484302	6.81941
5000.00	0.15310	6.53154	12.16764	79.47476	5.49741	6.13918	0.00387948	7.33775
5200.00	0.15200	6.57912	13.07012	85.98980	5.86608	6.37725	0.00312804	7.87713
5400.00	0.15101	6.62214	14.00758	92.76019	6.24920	6.60840	0.00253795	8.43762
5600.00	0.15012	6.66120	14.98024	99.78634	6.64677	6.83296	0.00207150	9.01918
5800.00	0.14933	6.69667	15.98809	107.06697	7.05879	7.05124	0.00170041	9.62192
6000.00	0.14861	6.72914	17.03119	114.60520	7.48527	7.26350	0.00140342	10.24557

T1 = 650.00 ALPHA = 0.50

UN1	U2/U-1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	P12/P11	(PT2-P2)/P1
1000.00	0.47935	2.08617	1.38703	2.89359	1.12498	0.13544	0.88675012	0.97224
1200.00	0.37933	2.63020	1.91243	4.25049	1.20004	0.33525	0.74267271	1.08196
1400.00	0.31646	3.14012	1.86564	5.85639	1.28574	0.50753	0.58646447	1.21602
1600.00	0.27653	3.59024	2.14432	7.71659	1.38317	0.99073	0.44964332	1.37969
1800.00	0.25078	3.98757	2.46463	9.82865	1.49263	1.22545	0.33516952	1.56196
2000.00	0.23073	4.33415	2.81264	12.19136	1.61451	1.56907	0.24835136	1.76627
2200.00	0.21573	4.63550	3.19795	14.80548	1.74882	1.91529	0.18259304	1.99191
2400.00	0.20425	4.89585	3.58243	17.66635	1.89566	2.26316	0.13421549	2.23843
2600.00	0.19517	5.12365	4.05780	20.78563	2.05513	2.60607	0.09900338	2.50518
2800.00	0.18785	5.32047	4.53914	24.15038	2.22722	2.94324	0.07340210	2.79347
3000.00	0.18215	5.49315	5.15578	27.77211	2.41203	3.27270	0.05479474	3.10194
3200.00	0.17740	5.64325	5.80776	31.64038	2.60943	3.59391	0.04120491	3.43170
3400.00	0.17345	5.77547	6.49252	35.76556	2.81955	3.90611	0.03123409	3.78192
3600.00	0.16976	5.89074	7.21146	40.13946	3.04238	4.20948	0.02386406	4.15375
3800.00	0.16686	5.99249	7.96735	44.75191	3.27784	4.50350	0.01836247	4.54620
4000.00	0.16428	6.08349	8.75707	49.62344	3.52613	4.78963	0.01427304	4.95960
4200.00	0.16223	6.16405	9.58165	54.74694	3.78704	5.06499	0.01116891	5.39383
4400.00	0.16057	6.23572	9.94114	60.11940	4.06065	5.33290	0.00880567	5.84926
4600.00	0.15874	6.29972	10.43858	65.74120	4.34705	5.59264	0.00699291	6.32580
4800.00	0.15781	6.35705	11.26500	71.61220	4.64661	5.84455	0.00559210	6.82350
5000.00	0.15604	6.40877	12.12446	77.73490	4.95964	6.08892	0.00450193	7.34209
5200.00	0.15491	6.45543	13.02297	84.10759	5.28635	6.32613	0.00364749	7.88179
5400.00	0.15370	6.49775	13.96355	90.73171	5.62701	6.55638	0.00297333	8.44243
5600.00	0.15310	6.53601	14.93521	97.60356	5.98194	6.78014	0.00243788	9.02439
5800.00	0.15219	6.57089	15.93798	104.72679	6.35221	6.99762	0.00201001	9.62732
6000.00	0.15145	6.60271	16.97187	112.09997	6.73753	7.20913	0.00166603	10.25136

T* = 850.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.48685	2.04562	1.38[illegible]	2.82477	1.11034	0.12785	0.89461222	0.97524
1200.00	0.38677	2.58551	1.[illegible]	4.15249	1.17755	0.32276	0.75492415	1.08453
1400.00	0.32483	3.08046	1.[illegible]	5.72570	1.25423	0.56109	0.60306700	1.22027
1600.00	0.28326	3.52291	2.[illegible]	7.54493	1.34127	0.87987	0.46467975	1.38174
1800.00	0.25538	3.91269	2.[illegible]	9.61049	1.43900	1.20436	0.35026481	1.56398
2000.00	0.23519	4.25186	2.[illegible]	11.91860	1.54785	1.54299	0.26861901	1.76885
2200.00	0.21974	4.54883	3.[illegible]	14.47900	1.66784	1.88670	0.19332315	1.99407
2400.00	0.20817	4.80599	3.[illegible]	17.28434	1.79897	2.23097	0.14323556	2.23991
2600.00	0.19659	5.02786	4.[illegible]	20.32921	1.94137	2.57214	0.10641185	2.50772
2800.00	0.19151	5.22179	4.[illegible]	23.62432	2.09504	2.90729	0.07947042	2.79575
3000.00	0.18549	5.39105	5.[illegible]	27.16660	2.26002	3.23506	0.05973277	3.10458
3200.00	0.18055	5.53057	5.[illegible]	30.95231	2.43631	3.55465	0.04521859	3.43434
3400.00	0.17643	5.66804	6.[illegible]	34.98439	2.62392	3.86543	0.03449460	3.78499
3600.00	0.17295	5.78216	6.[illegible]	39.26374	2.82285	4.16716	0.02652174	4.15634
3800.00	0.17010	5.86226	7.[illegible]	43.78677	3.[illegible]	4.46003	0.02055034	4.54917
4000.00	0.16747	5.97113	8.[illegible]	48.55089	3.25479	4.74395	0.01604780	4.96276
4200.00	0.16528	6.05021	8.[illegible]	53.56421	3.46777	5.01917	0.01262709	5.39725
4400.00	0.16359	6.12043	9.[illegible]	58.81985	3.73204	5.28602	0.01000823	5.85303
4600.00	0.16172	6.18335	10.[illegible]	64.32176	3.98775	5.54473	0.00795697	6.32973
4800.00	0.16026	6.23976	11.[illegible]	70.06819	4.25479	5.79564	0.00642057	6.82752
5000.00	0.15897	6.29062	12.[illegible]	76.06045	4.53317	6.03907	0.00519384	7.34629
5200.00	0.15772	6.33650	12.[illegible]	82.29784	4.82291	6.27534	0.00422775	7.88616
5400.00	0.15679	6.37789	13.[illegible]	88.77713	5.12403	6.50480	0.00346183	8.44730
5600.00	0.15557	6.41548	14.[illegible]	95.50194	5.43654	6.72773	0.00285085	9.02950
5800.00	0.15505	6.44972	15.[illegible]	102.47216	5.76024	6.94443	0.00236048	9.63276
6000.00	0.15430	6.48095	16.[illegible]	109.68701	6.09543	7.15518	0.00196460	10.25712

T0 = 650.00 ALPHA = 0.00

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.49857	2.00654	1.37469	2.75637	1.09849	0.12057	0.90201766	0.97826
1200.00	0.39419	2.53686	1.59966	4.05811	1.15934	0.31056	0.7667309	1.08699
1400.00	0.33010	3.02298	1.85179	5.59732	1.22873	0.56404	0.61726010	1.22252
1600.00	0.28922	3.45762	2.13498	7.37846	1.30743	0.85950	0.47944922	1.36388
1800.00	0.26058	3.84053	2.44763	9.40016	1.39571	1.18167	0.36428701	1.50601
2000.00	0.23922	4.17499	2.79356	11.66366	1.49409	1.51599	0.27345068	1.77028
2200.00	0.22342	4.46580	3.17262	14.16694	1.60243	1.85741	0.20420861	1.99590
2400.00	0.21211	4.71681	3.58425	16.90822	1.72087	2.19469	0.15238271	2.24274
2600.00	0.20250	4.93578	4.02962	19.89027	1.84947	2.53457	0.11404075	2.51014
2800.00	0.19516	5.12663	4.50822	23.11766	1.98827	2.87175	0.08576273	2.79806
3000.00	0.18693	5.29285	5.02264	26.58497	2.13729	3.19780	0.0649191	3.10702
3200.00	0.18359	5.43016	5.57124	30.29187	2.29654	3.51571	0.04944271	3.43666
3400.00	0.17958	5.56551	6.15217	34.23963	2.46592	3.82499	0.03795113	3.78731
3600.00	0.17615	5.67702	6.76849	38.42481	2.64553	4.12546	0.02935044	4.15932
3800.00	0.17314	5.77569	7.41935	42.85184	2.83551	4.41696	0.02287374	4.55201
4000.00	0.17057	5.86287	8.10475	47.51727	3.03565	4.69969	0.01796055	4.96589
4200.00	0.16854	5.94044	8.82288	52.42366	3.24604	4.97376	0.01420722	5.40070
4400.00	0.16640	6.00972	9.57277	57.57127	3.46669	5.23950	0.01131905	5.85637
4600.00	0.16471	6.07136	10.36423	62.95533	3.69759	5.49721	0.00907999	6.33347
4800.00	0.16322	6.12676	11.19755	68.58041	3.93873	5.74714	0.00733243	6.83149
5000.00	0.16190	6.17675	12.07268	74.44637	4.19014	5.98963	0.00595904	7.35048
5200.00	0.16073	6.22163	12.98963	80.54919	4.45179	6.22504	0.00487229	7.89084
5400.00	0.15968	6.26235	13.94845	86.89282	4.72369	6.45364	0.00400702	8.45216
5600.00	0.15875	6.29934	14.94914	93.47672	5.00585	6.67574	0.00331377	9.03455
5800.00	0.15790	6.33296	15.99172	100.29988	5.29828	6.89165	0.00275502	9.63807
6000.00	0.15714	6.36370	17.07620	107.36330	5.60095	7.10164	0.00230211	10.26265

T1 = 850.00 ALPHA = 0.90

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.507[illegible]1	1.96886	1.36[illegible]43	2.69422	1.08870	0.11359	0.9[illegible]96759	0.98129
1200.00	0.40150	2.49002	1.59323	3.96716	1.14437	0.29868	0.[illegible]8744	1.08943
1400.00	0.33698	2.96750	1.84481	5.47448	1.20769	0.54786	0.83112271	1.22480
1600.00	0.29458	3.39463	2.12825	7.21782	1.27945	0.83951	0.49397859	1.38588
1800.00	0.26518	3.77098	2.43[illegible]99	9.19735	1.36007	1.15735	0.37822216	1.56803
2000.00	0.24342	4.09963	2.75364	11.41286	1.44979	1.48975	0.28866905	1.77231
2200.00	0.228[illegible]7	4.38456	3.10143	13.86151	1.54847	1.82576	0.21917082	1.99834
2400.00	0.21586	4.63267	3.57217	16.54869	1.65646	2.16843	0.1617[illegible]5512	2.24458
2600.00	0.20629	4.84747	4.[illegible]1[illegible]33	19.46901	1.77369	2.50530	0.12168503	2.51227
2800.00	0.19861	5.03487	4.49[illegible]63	22.62786	1.90021	2.83662	0.09227187	2.80036
3000.00	0.19237	5.19825	5.00[illegible]85	26.02269	2.03603	3.16[illegible]93	0.07026656	3.10937
3200.00	0.18721	5.34157	5.55[illegible]98	29.65631	2.18117	3.47714	0.05367388	3.43880
3400.00	0.18285	5.46602	6.13[illegible]6	33.51791	2.33561	3.78506	0.04159449	3.79010
3600.00	0.17934	5.57588	6.74[illegible]48	37.61756	2.49934	4.08410	0.03235426	4.16205
3800.00	0.17627	5.67297	7.39[illegible]33	41.95347	2.67250	4.37429	0.02535465	4.55478
4000.00	0.17386	5.75849	8.[illegible]7[illegible]62	46.52062	2.85493	4.65583	0.02001423	4.96898
4200.00	0.17139	5.83465	8.79[illegible]48	51.32437	3.04672	4.92879	0.01591296	5.40404
4400.00	0.16942	5.90262	9.54[illegible]94	56.36375	3.24784	5.19344	0.01274071	5.86005
4600.00	0.16789	5.96333	10.33[illegible]03	61.63719	3.45830	5.45010	0.01026959	6.33722
4800.00	0.16619	6.01703	11.15[illegible]72	67.13630	3.67809	5.69918	0.00833058	6.83639
5000.00	0.16483	6.06686	12.[illegible]1427	72.86886	3.90726	5.94062	0.00680126	7.35472
5200.00	0.16364	6.11096	12.90[illegible]44	78.86465	4.14578	6.17514	0.00558502	7.89534
5400.00	0.16257	6.15107	13.83139	85.07791	4.39361	6.40287	0.00461253	8.45677
5600.00	0.16162	6.18739	14.79209	91.52440	4.65080	6.62416	0.00383004	9.03947
5800.00	0.16076	6.22037	15.78754	98.20451	4.91734	6.83929	0.00319678	9.64339
6000.00	0.15999	6.25049	16.81763	105.11973	5.19323	7.04853	0.00268146	10.26839

T = 650.00 ALPHA = 1.00

UN1	U 2/L 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	P1/P11	(P12-P2)/P1
1000.00	0.51747	1.93249	1.35013	2.60229	1.00047	0.10990	.91554210	0.98434
1200.00	0.409 2	2.44484	1.38776	3.67932	1.13177	0.28712	1.70499232	1.09185
1400.00	0.34316	2.91396	1.43761	5.05514	1.19002	0.43200	0.94456676	1.22712
1600.00	0.29945	3.33363	2.11 49	7.06271	1.25901	0.81489	0.50426140	1.38790
1800.00	0.270 8	3.70264	2.45 29	8.99843	1.33000	1.13479	.39195525	1.57064
2000.00	0.248 2	4.02701	2.77 13	11.17187	1.41249	1.46367	.29 700 92	1.77430
2200.00	0.232 3	4.30001	3.10 03	13.57292	1.50322	1.80510	.22053076	1.99984
2400.00	0.219 9	4.55190	3.45 09	16.20515	1.60243	2.13747	.17139420	2.24619
2600.00	0.209 5	4.76305	3.81 05	19.06560	1.71013	2.47227	.12799220	2.51394
2800.00	0.202 7	4.94044	4.17 23	22.15623	1.82633	2.80166	0.09 99125	2.80258
3000.00	0.195 1	5.10709	4.55 45	25.48116	1.95111	3.12444	0.07 65069	3.11168
3200.00	0.190 6	5.24766	4.93 67	29.03682	2.08444	3.43216	0.05 56093	3.44143
3400.00	0.186 2	5.37008	5.31 94	32.82161	2.22631	3.74552	1.04542748	3.79201
3600.00	0.182 4	5.47817	5.72 45	36.83769	2.37673	4.04310	1.03533203	4.10483
3800.00	0.179 2	5.57336	7.37126	41.08219	2.53573	4.33211	0.02799247	4.55796
4000.00	.176 5	5.65736	6.13 43	45.55971	2.7 533	4.61263	1.02221157	4.97196
4200.00	0.174 4	5.73253	6.76 07	50.26955	2.97952	4.88419	0.01774723	5.40734
4400.00	0.172 3	5.79933	7.21 18	55.19919	3.10423	5.14777	0.01427719	5.86304
4600.00	0.170 7	5.85909	10.53 63	60.36526	3.25752	5.40359	0.01156140	6.34092
4800.00	0.169 3	5.91252	11.12 03	65.75954	3.43945	5.65139	0.00942129	6.83949
5000.00	0.167 6	5.96176	11.77 03	71.38652	3.67000	5.89202	0.00772412	7.35901
5200.00	0.166 5	6.00419	12.36 24	77.23930	3.88907	6.12504	0.00636945	7.89978
5400.00	0.165 7	6.04351	13.74 30	83.32376	4.11674	6.35253	0.00525162	8.46163
5600.00	0.164 0	6.07919	14.74 01	89.63779	4.35299	6.57300	0.00440264	9.04462
5800.00	0.163 2	6.11160	15.73 39	96.18184	4.59782	6.78734	0.00366891	9.64873
6000.00	0.162 3	6.14129	16.76 46	102.95530	4.85124	6.99582	0.00310572	10.27401

T1 = 900.00 ALPHA = 0.

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	[illegible]	2.28557	[illegible]	3.17776	1.43274	0.16334	0.84930397	0.93632
1200.00	[illegible]	2.69623	[illegible]	4.64872	1.67881	0.37501	0.68522248	1.04028
1400.00	[illegible]	3.46116	[illegible]	6.39486	1.96141	0.65207	0.52096697	1.16915
1600.00	[illegible]	3.96670	[illegible]	8.40[illegible]	2.28301	0.96551	0.38078825	1.32154
1800.00	[illegible]	4.41562	[illegible]	10.69855	2.64504	1.30200	0.27198785	1.49382
2000.00	[illegible]	4.81039	[illegible]	13.26449	3.04825	1.65071	0.19191312	1.68595
2200.00	[illegible]	5.15117	[illegible]	16.09141	3.49271	2.00484	0.13468231	1.89954
2400.00	[illegible]	5.45196	[illegible]	19.20508	3.97899	2.35780	0.09462805	2.13057
2600.00	[illegible]	5.71164	[illegible]	22.58283	4.50699	2.70719	0.06672432	2.38238
2800.00	[illegible]	5.93853	[illegible]	26.23539	5.07692	3.05021	0.04734911	2.65347
3000.00	[illegible]	6.13582	[illegible]	30.15601	5.68878	3.38562	0.03365679	2.94462
3200.00	[illegible]	6.30906	[illegible]	34.35142	6.34267	3.71233	0.02442055	3.25509
3400.00	[illegible]	6.46123	[illegible]	38.81934	7.03861	4.02996	0.01777510	3.58503
3600.00	[illegible]	6.59516	[illegible]	43.55670	7.77661	4.33833	0.01305830	3.93471
3800.00	[illegible]	6.71309	[illegible]	48.56649	8.55667	4.63751	0.00968177	4.30445
4000.00	[illegible]	6.81776	[illegible]	53.84[illegible]	9.37883	4.92755	0.00724425	4.69380
4200.00	[illegible]	6.91086	[illegible]	59.39916	10.24309	5.20869	0.00546884	5.10291
4400.00	[illegible]	6.99389	[illegible]	65.22237	11.14947	5.48122	0.00416425	5.53180
4600.00	[illegible]	7.06833	[illegible]	71.31826	12.09797	5.74543	0.00319736	5.98038
4800.00	[illegible]	7.13490	[illegible]	77.68244	13.08857	6.00170	0.00247454	6.44903
5000.00	[illegible]	7.19493	[illegible]	84.31895	14.12131	6.25032	0.00192984	6.93740
5200.00	[illegible]	7.24915	[illegible]	91.22647	15.19617	6.49162	0.00151608	7.44560
5400.00	[illegible]	7.29829	[illegible]	98.40619	16.31317	6.72594	0.00119939	7.97359
5600.00	[illegible]	7.34286	[illegible]	105.85610	17.47231	6.95361	0.00095518	8.52224
5800.00	[illegible]	7.38346	[illegible]	113.57746	18.67357	7.17491	0.00076556	9.08920
6000.00	[illegible]	7.42042	[illegible]	121.56830	19.91696	7.39015	0.00061730	9.67691

T1 = 900.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.44753	2.23546	1.38467	3.09540	1.30725	0.15445	0.85963124	0.93948
1200.00	0.35213	2.83425	1.59924	4.53264	1.48428	0.36380	0.70028494	1.04278
1400.00	0.29545	3.38693	1.84120	6.23601	1.68725	0.63348	0.53775091	1.17168
1600.00	0.25748	3.88380	2.11274	8.20545	1.91817	0.94265	0.39727512	1.32320
1800.00	0.23150	4.32346	2.41495	10.44095	2.17799	1.27575	0.28669774	1.49556
2000.00	0.21257	4.70872	2.74549	12.94188	2.46729	1.62173	0.20430533	1.68825
2200.00	0.19825	5.04496	3.11361	15.70625	2.78610	1.97295	0.14484531	1.90120
2400.00	0.18736	5.33722	3.51131	18.74065	3.13489	2.32379	0.10272907	2.13303
2600.00	0.17884	5.59170	3.94123	22.03819	3.51364	2.67103	0.07311632	2.38492
2800.00	0.17200	5.81403	4.40782	25.60397	3.92246	3.01210	0.05235476	2.65607
3000.00	0.16645	6.00792	4.89525	29.43438	4.36135	3.34565	0.03776574	2.94711
3200.00	0.16186	6.17806	5.42769	33.53240	4.83039	3.67067	0.02747041	3.25738
3400.00	0.15816	6.32652	5.98422	37.89001	5.32955	3.98688	0.02015505	3.58792
3600.00	0.15515	6.45767	6.58393	42.51719	5.85889	4.29386	0.01492192	3.93780
3800.00	0.15263	6.57340	7.21706	47.40775	6.41841	4.59170	0.01114692	4.30759
4000.00	0.14979	6.67609	7.87351	52.56420	7.00812	4.88048	0.00840106	4.69703
4200.00	0.14777	6.76727	8.56438	57.98459	7.62802	5.16047	0.00638641	5.10634
4400.00	0.14611	6.84872	9.29075	63.67084	8.27813	5.43189	0.00489578	5.53537
4600.00	0.14468	6.92131	10.05262	69.61800	8.95843	5.69510	0.00378336	5.98448
4800.00	0.14343	6.98669	10.85407	75.83404	9.66895	5.95036	0.00294656	6.45320
5000.00	0.14143	7.04553	11.68409	82.31350	10.40969	6.19803	0.00231196	6.94181
5200.00	0.14057	7.09870	12.54573	89.05832	11.18064	6.43843	0.00182700	7.45021
5400.00	0.13972	7.14650	13.44199	96.06721	11.98181	6.67190	0.00145360	7.97851
5600.00	0.13907	7.19046	14.37190	103.34046	12.81320	6.89873	0.00116405	8.52670
5800.00	0.13851	7.23021	15.33547	110.87871	13.67481	7.11924	0.00093797	9.09473
6000.00	0.13782	7.26649	16.33271	118.68156	14.56664	7.33371	0.00076029	9.68264

T1 = 900.00 ALPHA = 0.20

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.45720	2.18724	1.37489	3.01597	1.23695	0.14598	0.86931279	0.94276
1200.00	0.36046	2.77426	1.59731	4.42029	1.37533	0.35012	0.71468502	1.04551
1400.00	0.30158	3.31582	1.83674	6.08372	1.53375	0.61529	0.55414985	1.17417
1600.00	0.26297	3.80279	2.10558	8.00709	1.71385	0.92052	0.41347157	1.32544
1800.00	0.23628	4.23233	2.40489	10.18674	1.91642	1.25046	0.30127998	1.49836
2000.00	0.21674	4.61167	2.73551	12.63379	2.14193	1.59311	0.21687081	1.69036
2200.00	0.20242	4.94025	3.10172	15.33314	2.39050	1.94170	0.15522242	1.90331
2400.00	0.19131	5.22700	3.50[illegible]	18.29451	2.66236	2.29026	0.11110126	2.13555
2600.00	0.18259	5.47688	3.92[illegible]	21.51662	2.95757	2.63529	0.07979157	2.38734
2800.00	0.17591	5.69460	4.38[illegible]	24.99815	3.27619	2.97445	0.05762852	2.65867
3000.00	0.16992	5.88514	4.86[illegible]	28.74156	3.61827	3.30615	0.04192070	2.94958
3200.00	0.16526	6.05122	5.41[illegible]	32.74041	3.98381	3.62964	0.03073540	3.26034
3400.00	0.16136	6.19725	5.97[illegible]	36.99996	4.37284	3.94426	0.02272722	3.59075
3600.00	0.15818	6.32591	6.56834	41.51911	4.78539	4.24982	0.01695229	3.94076
3800.00	0.15550	6.43930	7.19[illegible]	46.29536	5.22145	4.54636	0.01275477	4.31078
4000.00	0.15291	6.53990	7.84[illegible]	51.33129	5.68103	4.83392	0.00967954	4.70045
4200.00	0.15074	6.62957	8.54171	56.62760	6.16416	5.11270	0.00740789	5.10971
4400.00	0.14915	6.70924	9.26764	62.18027	6.67081	5.38305	0.00571544	5.53910
4600.00	0.14748	6.78062	10.02743	67.99226	7.20109	5.64519	0.00444450	5.98822
4800.00	0.14610	6.84456	10.82244	74.06116	7.75473	5.89948	0.00348231	6.45731
5000.00	0.14486	6.90223	11.65[illegible]	80.38992	8.33201	6.14621	0.00274829	6.94615
5200.00	0.14379	6.95439	12.50[illegible]	86.97837	8.93285	6.38570	0.00218410	7.45475
5400.00	0.14283	7.00147	13.40[illegible]	93.82329	9.55722	6.61832	0.00174723	7.98340
5600.00	0.14196	7.04429	14.32760	100.92770	10.20515	6.84432	0.00140663	8.53183
5800.00	0.14118	7.08334	15.28[illegible]	108.29195	10.87663	7.06402	0.00113930	9.10003
6000.00	0.14047	7.11884	16.28[illegible]	115.91231	11.57166	7.27774	0.00092809	9.68832

T1 = 900.00 ALPHA = 0.30

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.467 4	2.14113	1.37 08	2.93965	1.19197	0.13779	0.87647451	0.94595
1200.00	0.38810	2.71667	1.58763	4.31227	1.30565	0.33683	0.72852514	1.04823
1400.00	0.30792	3.24756	1.82 28	5.93744	1.43559	0.59751	0.57014825	1.17666
1600.00	0.26846	3.72499	2.09 40	7.81656	1.56324	0.89882	0.42947271	1.32770
1800.00	0.24110	4.14764	2.39 90	9.94979	1.74925	1.22505	0.31601609	1.50005
2000.00	0.22142	4.51630	2.73 41	12.33 36	1.93394	1.56534	0.22947975	1.69338
2200.00	0.20654	4.84161	3.09 64	14.97825	2.13763	1.91070	0.16564585	1.90498
2400.00	0.19526	5.12125	3.48 67	17.86633	2.36029	2.25717	0.11973277	2.13804
2600.00	0.18633	5.36676	3.91 00	21.01631	2.60211	2.59997	0.08673944	2.38969
2800.00	0.17920	5.58036	4.37 77	24.41836	2.86308	2.93718	0.06316911	2.66106
3000.00	0.17340	5.76685	4.88 19	28.07414	3.14325	3.26717	0.04631759	2.95221
3200.00	0.16862	5.93048	5.39 42	31.98560	3.44265	3.58891	0.03422562	3.26269
3400.00	0.16465	6.07333	5.95 53	36.14546	3.76129	3.90208	0.02549530	3.59345
3600.00	0.16130	6.19951	6.54 68	40.56141	4.09917	4.20623	0.01915354	3.94365
3800.00	0.15846	6.31075	7.18 93	45.22865	4.45632	4.50144	0.01451073	4.31378
4000.00	0.15602	6.40950	7.92 36	50.15021	4.83273	4.78776	0.01108571	4.70355
4200.00	0.15392	6.49705	8.61 00	55.32230	5.22841	5.06543	0.00853818	5.11333
4400.00	0.15218	6.57543	9.23 95	60.75004	5.64337	5.33465	0.00662863	5.54270
4600.00	0.15068	6.64535	9.99 29	66.42821	6.07760	5.59576	0.00518548	5.99211
4800.00	0.14947	6.70817	10.78 81	72.35956	6.53112	5.84905	0.00408650	6.46131
5000.00	0.14743	6.76466	11.61 85	78.54329	7.00392	6.09484	0.00324320	6.95042
5200.00	0.14672	6.81574	12.48 19	84.97997	7.49600	6.33344	0.00259138	7.45937
5400.00	0.14573	6.86203	13.38 02	91.67001	8.00738	6.56518	0.00208399	7.98813
5600.00	0.14484	6.90397	14.32 28	98.61132	8.53805	6.79036	0.00168629	8.53690
5800.00	0.14405	6.94219	15.24101	105.80686	9.08798	7.00928	0.00137256	9.10548
6000.00	0.14333	6.97705	16.23920	113.25278	9.65722	7.22223	0.00112349	9.69400

T1 = 900.00 ALPHA = 0.40

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.47677	2.09744	1.36727	2.86778	1.16072	0.12976	0.88724152	0.94880
1200.00	0.37576	2.66129	1.58131	4.20832	1.25723	0.32393	0.74180987	1.05098
1400.00	0.31428	3.18193	1.82176	5.79671	1.36741	0.58014	0.58573530	1.17915
1600.00	0.27395	3.65030	2.09119	7.63346	1.49251	0.87753	0.44526700	1.32994
1800.00	0.24631	4.06491	2.39084	9.71853	1.63312	1.20034	0.33064331	1.50229
2000.00	0.22581	4.42851	2.72145	12.05105	1.78956	1.53725	0.24235695	1.69478
2200.00	0.21080	4.74372	3.08343	14.62603	1.96197	1.88070	0.17657575	1.90804
2400.00	0.19920	5.01998	3.47732	17.45608	2.15052	2.22445	0.12861406	2.14036
2600.00	0.19007	5.26109	3.90336	20.53596	2.35526	2.56508	0.09394944	2.39199
2800.00	0.18279	5.47075	4.36174	23.86198	2.57621	2.90033	0.06896873	2.66334
3000.00	0.17687	5.65398	4.85266	27.43681	2.81341	3.22850	0.05096213	2.95440
3200.00	0.17201	5.81366	5.37624	31.25576	3.06687	3.54874	0.03793289	3.26551
3400.00	0.16793	5.95473	5.93268	35.32751	3.33663	3.86026	0.02846292	3.59583
3600.00	0.16452	6.07818	6.52201	39.64196	3.62267	4.16306	0.02152939	3.94644
3800.00	0.16162	6.18723	7.14434	44.20370	3.92501	4.45697	0.01641888	4.31674
4000.00	0.15913	6.28398	7.79975	49.01351	4.24367	4.74207	0.01262361	4.70679
4200.00	0.15699	6.36998	8.48830	54.07026	4.57863	5.01857	0.00978290	5.11678
4400.00	0.15512	6.44679	9.21002	59.37519	4.92992	5.28670	0.00764020	5.54631
4600.00	0.15348	6.51535	9.96496	64.92516	5.29752	5.54678	0.00601123	5.99598
4800.00	0.15205	6.57697	10.75315	70.72319	5.68145	5.79908	0.00476364	6.46542
5000.00	0.15077	6.63252	11.57463	76.76899	6.08170	6.04391	0.00380104	6.95465
5200.00	0.14964	6.68256	12.42940	83.06024	6.49828	6.28163	0.00305293	7.46391
5400.00	0.14863	6.72793	13.31751	89.59922	6.93118	6.51250	0.00246757	7.99298
5600.00	0.14773	6.76911	14.23895	96.38503	7.38041	6.73686	0.00200647	8.54195
5800.00	0.14692	6.80661	15.19375	103.41797	7.84597	6.95498	0.00164094	9.11081
6000.00	0.14618	6.84083	16.18192	110.69774	8.32786	7.16716	0.00134937	9.69958

T1 = 900.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.48676	2.05438	1.36130	2.79663	1.13767	0.12237	0.89523713	0.95141
1200.00	0.38344	2.60794	1.57524	4.10811	1.22161	0.31142	0.75454444	1.05377
1400.00	0.32064	3.11878	1.81521	5.66123	1.31727	0.56317	0.60090981	1.18166
1600.00	0.27945	3.57844	2.08394	7.45727	1.42581	0.85665	0.46083311	1.33220
1800.00	0.25092	3.98534	2.38275	9.49665	1.54775	1.17605	0.34521909	1.50453
2000.00	0.23080	4.34221	2.71238	11.77770	1.68341	1.50996	0.25523988	1.69698
2200.00	0.21492	4.65280	3.07332	14.29953	1.83290	1.85053	0.18758008	1.90965
2400.00	0.20312	4.92327	3.46599	17.06396	1.99635	2.19204	0.13773859	2.14837
2600.00	0.19381	5.15963	3.89071	20.07464	2.17383	2.53058	0.10141169	2.39419
2800.00	0.18638	5.36535	4.34768	23.32683	2.36536	2.86391	0.07501896	2.66563
3000.00	0.18034	5.54520	4.83709	26.82263	2.57095	3.19030	0.05584400	2.95672
3200.00	0.17536	5.70240	5.35909	30.55969	2.79069	3.50884	0.04186652	3.26768
3400.00	0.17124	5.83965	5.91377	34.53434	3.02450	3.81904	0.03162528	3.59888
3600.00	0.16775	5.96132	6.50131	38.75639	3.27246	4.12035	0.02408180	3.94930
3800.00	0.16479	6.06838	7.12174	43.21736	3.53453	4.41295	0.01848286	4.31974
4000.00	0.16225	6.16319	7.77513	47.91957	3.81074	4.69684	0.01429775	4.71009
4200.00	0.16006	6.24766	8.46156	52.86500	4.10109	4.97217	0.01114628	5.12013
4400.00	0.15815	6.32295	9.18107	58.05145	4.40558	5.23922	0.00875478	5.55005
4600.00	0.15648	6.39039	9.93370	63.48024	4.72422	5.49823	0.00692650	5.99977
4800.00	0.15502	6.45081	10.71948	69.14930	5.05700	5.74955	0.00551831	6.46949
5000.00	0.15372	6.50527	11.53844	75.06060	5.40394	5.99345	0.00442600	6.95904
5200.00	0.15257	6.55455	12.39060	81.21486	5.76503	6.23024	0.00357282	7.46832
5400.00	0.15154	6.59897	13.27598	87.60774	6.14026	6.46027	0.00290177	7.99779
5600.00	0.15062	6.63939	14.19460	94.24353	6.52965	6.68380	0.00237067	8.54701
5800.00	0.14979	6.67620	15.14648	101.12088	6.93319	6.90113	0.00194765	9.11615
6000.00	0.14904	6.70977	16.13162	108.23940	7.35088	7.11254	0.00160871	9.70523

T1 = 900.00 ALPHA = 0.60

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.49664	2.01351	1.35532	2.72890	1.12001	0.11513	0.90288227	0.95464
1200.00	0.39115	2.55656	1.56911	4.01154	1.19430	0.29929	0.76675410	1.05657
1400.00	0.32750	3.05812	1.80562	5.53009	1.27884	0.54656	0.61568994	1.18412
1600.00	0.28456	3.50929	2.07767	7.28765	1.37470	0.83616	0.47615916	1.33447
1800.00	0.25553	3.90880	2.37853	9.28193	1.48235	1.15216	0.35972621	1.50676
2000.00	0.23479	4.25917	2.70929	11.51394	1.60208	1.48308	0.26818803	1.69918
2200.00	0.21956	4.56489	3.06517	13.98364	1.73402	1.82084	0.19873182	1.91145
2400.00	0.20780	4.83083	3.45466	16.68887	1.87825	2.15992	0.14709266	2.14406
2600.00	0.19754	5.06228	3.87405	19.63170	2.03485	2.49646	0.10911731	2.39611
2800.00	0.18978	5.26383	4.33360	22.81130	2.20385	2.82793	0.08131098	2.66796
3000.00	0.18353	5.43985	4.82148	26.22612	2.38525	3.15265	0.06095457	2.95942
3200.00	0.17876	5.59401	5.34186	29.88242	2.57912	3.46958	0.04601097	3.27067
3400.00	0.17463	5.72965	5.89468	33.77550	2.78543	3.77812	0.03499079	3.60142
3600.00	0.17098	5.84858	6.48058	37.90221	3.00419	4.07812	0.02661251	3.95234
3800.00	0.16756	5.95391	7.09911	42.26745	3.23542	4.36937	0.02070588	4.32281
4000.00	0.16537	6.04706	7.75150	46.86747	3.47912	4.65202	0.01611251	4.71328
4200.00	0.16313	6.13019	8.43483	51.70710	3.73530	4.92616	0.01263321	5.12332
4400.00	0.16119	6.20397	9.15212	56.77946	4.00394	5.19213	0.00997728	5.55357
4600.00	0.15948	6.27021	9.90144	62.09039	4.28505	5.45010	0.00793583	6.00347
4800.00	0.15799	6.32944	10.68579	67.63503	4.57865	5.70045	0.00635495	6.47350
5000.00	0.15667	6.38294	11.50224	73.41811	4.88476	5.94340	0.00512249	6.96322
5200.00	0.15549	6.43117	12.35177	79.43639	5.20336	6.17931	0.00415493	7.47294
5400.00	0.15444	6.47489	13.23444	85.69155	5.53442	6.40846	0.00339040	8.00251
5600.00	0.15350	6.51453	14.15023	92.18219	5.87797	6.63117	0.00278241	8.55207
5800.00	0.15266	6.55065	15.09919	98.90953	6.23401	6.84771	0.00229599	9.12150
6000.00	0.15189	6.58368	16.08131	105.87420	6.60254	7.05835	0.00190454	9.71075

T1 = 900.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.50655	1.97415	1.34929	2.66370	1.10602	0.10820	0.91006171	0.95788
1200.00	0.39663	2.50731	1.56296	3.91884	1.17269	0.28745	0.77850456	1.05925
1400.00	0.33336	2.99973	1.80200	5.40551	1.24845	0.53032	0.63006469	1.18657
1600.00	0.29047	3.44275	2.06936	7.12430	1.33427	0.81606	0.49124071	1.33672
1800.00	0.26078	3.83463	2.36446	9.07469	1.43063	1.12877	0.37411036	1.50918
2000.00	0.23928	4.17919	2.69417	11.25945	1.53777	1.45660	0.28117996	1.70138
2200.00	0.22330	4.47826	3.05291	13.67177	1.65581	1.79197	0.20995126	1.91417
2400.00	0.21101	4.73921	3.44619	16.31796	1.78485	2.12873	0.15657664	2.14699
2600.00	0.20129	4.96795	3.86535	19.20287	1.92497	2.46285	0.11703905	2.39832
2800.00	0.19358	5.16592	4.31049	22.31419	2.07615	2.79238	0.08783589	2.67035
3000.00	0.18751	5.33868	4.80586	25.65694	2.23844	3.11536	0.06629715	2.96196
3200.00	0.18214	5.49032	5.32465	29.23403	2.41186	3.43063	0.05037695	3.27319
3400.00	0.17783	5.62325	5.87594	33.04189	2.59641	3.73771	0.03855373	3.60428
3600.00	0.17421	5.74035	6.45985	37.08184	2.79211	4.03626	0.02972550	3.95511
3800.00	0.17113	5.84364	7.07646	41.35232	2.99895	4.32622	0.02309082	4.32588
4000.00	0.16849	5.93523	7.72585	45.85467	3.21695	4.60762	0.01807122	4.71644
4200.00	0.16621	6.01666	8.40805	50.58844	3.44611	4.88064	0.01424656	5.12685
4400.00	0.16422	6.08929	9.12314	55.55349	3.68643	5.14548	0.01131153	5.55716
4600.00	0.16249	6.15429	9.87115	60.74989	3.93791	5.40243	0.00904321	6.00733
4800.00	0.16096	6.21253	10.65209	66.17645	4.20055	5.65177	0.00727777	6.47749
5000.00	0.15961	6.26517	11.46602	71.83662	4.47437	5.89377	0.00589460	6.96733
5200.00	0.15842	6.31249	12.31294	77.72529	4.75934	6.12879	0.00480340	7.47735
5400.00	0.15735	6.35546	13.19289	83.84687	5.05549	6.35707	0.00393722	8.00712
5600.00	0.15639	6.39431	14.10586	90.19721	5.36280	6.57897	0.00324526	8.55706
5800.00	0.15553	6.42980	15.05189	96.78059	5.68129	6.79471	0.00268928	9.12674
6000.00	0.15475	6.46214	16.03098	103.59447	6.01094	7.00460	0.00223994	9.71641

T1 = 900.00 ALPHA = 0.80

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.51647	1.93622	1.34320	2.60072	1.09465	0.10157	0.91679795	0.96114
1200.00	0.40652	2.45993	1.55[illegible]78	3.82957	1.15516	0.27593	0.78978198	1.06172
1400.00	0.33974	2.94343	1.79534	5.28449	1.22380	0.51446	0.64402978	1.18903
1600.00	0.29548	3.37861	2.06203	6.96680	1.30150	0.79634	0.50606158	1.33897
1800.00	0.26567	3.76404	2.35831	8.87676	1.38870	1.10557	0.38845655	1.51121
2000.00	0.24378	4.10214	2.68503	11.01439	1.48564	1.43052	0.29419802	1.70356
2200.00	0.22742	4.39717	3.04274	13.37944	1.59244	1.76300	0.22138143	1.91576
2400.00	0.21497	4.65402	3.43165	15.97189	1.70918	2.09731	0.16632714	2.14825
2600.00	0.20507	4.87635	3.85259	18.78660	1.83589	2.42979	0.12515966	2.40092
2800.00	0.19718	5.07146	4.30536	21.83443	1.97265	2.75727	0.09458487	2.67271
3000.00	0.19079	5.24131	4.79023	25.10708	2.11944	3.07846	0.07186535	2.96440
3200.00	0.18550	5.39081	5.30744	28.61140	2.27631	3.39201	0.05496077	3.27544
3400.00	0.18111	5.52136	5.85702	32.33886	2.44323	3.69759	0.04231999	3.60665
3600.00	0.17743	5.63617	6.43912	36.29199	2.62023	3.99478	0.03282123	3.95778
3800.00	0.17429	5.73746	7.05381	40.47095	2.80731	4.28347	0.02564032	4.32887
4000.00	0.17160	5.82743	7.70118	44.87811	3.00448	4.56364	0.02017685	4.71961
4200.00	0.16928	5.90741	8.38128	49.51162	3.21175	4.83550	0.01599089	5.13022
4400.00	0.16725	5.97890	9.09416	54.37388	3.42911	5.09923	0.01276180	5.56059
4600.00	0.16549	6.04256	9.83984	59.45882	3.65655	5.35516	0.01025289	6.01113
4800.00	0.16394	6.09987	10.61837	64.77047	3.89410	5.60351	0.00829086	6.48146
5000.00	0.16256	6.15153	11.42979	70.31063	4.14175	5.84457	0.00674617	6.97159
5200.00	0.16134	6.19800	12.27408	76.07441	4.39950	6.07870	0.00552196	7.48187
5400.00	0.16025	6.24017	13.15130	82.06641	4.66735	6.30613	0.00454584	8.01196
5600.00	0.15928	6.27844	14.06146	88.28804	4.94530	6.52719	0.00376274	8.56201
5800.00	0.15839	6.31335	15.00457	94.72919	5.23335	6.74213	0.00313087	9.13189
6000.00	0.15760	6.34510	15.98064	101.39880	5.53150	6.95126	0.00261808	9.72189

T1 = 900.00 ALPHA = 0.90

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.52642	1.89963	1.33704	2.53989	1.08523	0.09523	0.92311248	0.96441
1200.00	0.41420	2.41427	1.55055	3.74345	1.14065	0.26474	0.80059271	1.06420
1400.00	0.34613	2.88906	1.76865	5.16753	1.20340	0.49898	0.65758194	1.19151
1600.00	0.30151	3.31069	2.05466	6.81466	1.27438	0.77702	0.52060513	1.34126
1800.00	0.27000	3.69555	2.35011	8.68495	1.35402	1.08265	0.40265023	1.51341
2000.00	0.24627	4.02782	2.67586	10.77790	1.44252	1.40483	0.30722243	1.70574
2200.00	0.23150	4.31780	3.03249	13.09368	1.54002	1.73467	0.23286877	1.91791
2400.00	0.21682	4.57001	3.42139	15.63193	1.64658	2.06667	0.17619029	2.15047
2600.00	0.20677	4.78996	3.83991	18.39351	1.76226	2.39674	0.13352364	2.40245
2800.00	0.20079	4.98030	4.29120	21.37148	1.88706	2.72258	0.10154950	2.67510
3000.00	0.19427	5.14745	4.77458	24.57694	2.02104	3.04195	0.07765238	2.96682
3200.00	0.18869	5.29422	5.29118	28.00739	2.16421	3.35391	0.05975026	3.27810
3400.00	0.18443	5.42223	5.83804	31.65519	2.31655	3.65804	0.04627833	3.60966
3600.00	0.18086	5.53526	6.41433	35.52719	2.47809	3.95379	0.03609721	3.96078
3800.00	0.17785	5.63533	7.03115	39.62284	2.64884	4.24108	0.02835694	4.33163
4000.00	0.17472	5.72347	7.67749	43.93619	2.82879	4.52007	0.02243205	4.72276
4200.00	0.17255	5.80209	8.35448	48.47347	3.01795	4.79077	0.01786925	5.13353
4400.00	0.17029	5.87219	9.06514	53.23226	3.21632	5.05343	0.01433098	5.56423
4600.00	0.16849	5.93506	9.80853	58.21436	3.42391	5.30827	0.01156903	6.01468
4800.00	0.16691	5.99129	10.58464	63.41560	3.64070	5.55565	0.00939818	6.48530
5000.00	0.16551	6.04199	11.39354	68.83941	3.86672	5.79578	0.00768124	6.97575
5200.00	0.16427	6.08769	12.23522	74.48416	4.10195	6.02900	0.00631455	7.48623
5400.00	0.16315	6.12915	13.10972	80.35142	4.34640	6.25557	0.00522010	8.01655
5600.00	0.16216	6.16673	14.01706	86.43939	4.60007	6.47581	0.00433838	8.56689
5800.00	0.16126	6.20101	14.95724	92.74997	4.86296	6.68996	0.00362405	9.13708
6000.00	0.16046	6.23216	15.93027	99.28004	5.13506	6.89834	0.00304206	9.72744

T1 = 900.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.53639	1.86431	1.33[illegible]63	2.48109	1.07728	0.08919	0.92902557	0.96770
1200.00	0.42191	2.37020	1.54424	3.66026	1.12843	0.25388	0.81094305	1.06670
1400.00	0.35293	2.83664	1.78191	5.05460	1.18623	0.48385	0.67073664	1.19398
1600.00	0.30702	3.25707	2.04727	6.66809	1.25157	0.75803	0.53469033	1.34349
1800.00	0.27552	3.62944	2.34168	8.49972	1.32485	1.06051	0.41670770	1.51563
2000.00	0.25277	3.95614	2.66467	10.54973	1.40627	1.37952	0.32023860	1.70788
2200.00	0.23578	4.24122	3.02223	12.81796	1.49594	1.70673	0.24444212	1.92005
2400.00	0.22275	4.48942	3.40494	15.30416	1.59395	2.03633	0.18621868	2.15244
2600.00	0.21257	4.70424	3.82209	18.00852	1.70031	2.36457	0.14202205	2.40530
2800.00	0.20440	4.89239	4.27703	20.92489	1.81509	2.68827	0.10872203	2.67746
3000.00	0.19775	5.05688	4.75[illegible]91	24.06524	1.93830	3.00585	0.08365127	2.96924
3200.00	0.19227	5.20089	5.27269	27.42374	2.06995	3.31623	0.06474537	3.28076
3400.00	0.18772	5.32712	5.81[illegible]07	30.99867	2.21005	3.61879	0.05043691	3.61222
3600.00	0.18388	5.43839	6.39757	34.79249	2.35860	3.91311	0.03955855	3.96337
3800.00	0.18063	5.53632	7.[illegible]44	38.80101	2.51561	4.19917	0.03123888	4.33471
4000.00	0.17783	5.62321	7.65[illegible]61	43.02766	2.68108	4.47689	0.02483920	4.72581
4200.00	0.17542	5.70045	8.32267	47.47140	2.85502	4.74644	0.01988433	5.13684
4400.00	0.17333	5.76937	9.03812	52.13272	3.03743	5.00801	0.01602308	5.56771
4600.00	0.17150	5.83103	9.77718	57.01106	3.22831	5.26164	0.01299430	6.01854
4800.00	0.16988	5.88642	10.55[illegible]89	62.10704	3.42767	5.50820	0.01060321	6.48923
5000.00	0.16845	5.93632	11.35728	67.42041	3.63551	5.74739	0.00870353	6.97984
5200.00	0.16719	5.98123	12.19434	72.94907	3.85180	5.97971	0.00718476	7.49057
5400.00	0.16606	6.02186	13.06[illegible]11	78.69459	4.07658	6.20544	0.00596340	8.02128
5600.00	0.16505	6.05889	13.97263	84.65850	4.30983	6.42484	0.00497559	8.57180
5800.00	0.16414	6.09254	14.90969	90.83919	4.55157	6.63821	0.00417212	9.14232
6000.00	0.16331	6.12321	15.87690	97.23593	4.80178	6.84562	0.00351507	9.73289

T1 = 950.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.45250	2.20946	1.56131	3.00777	1.40141	0.14212	0.86751498	0.92008
1200.00	0.35567	2.81314	1.56533	4.40549	1.63505	0.34165	0.71046984	1.01662
1400.00	0.29636	3.37426	1.79617	6.05746	1.90255	0.60198	0.54772341	1.13830
1600.00	0.25763	3.88160	2.02307	7.96919	2.20657	0.90244	0.40558062	1.28129
1800.00	0.23067	4.33153	2.24907	10.13610	2.54844	1.22504	0.29286647	1.44470
2000.00	0.21152	4.72986	2.45596	12.56709	2.92902	1.56708	0.20965328	1.62621
2200.00	0.19695	5.07753	2.64404	15.25589	3.34455	1.91245	0.14771873	1.82670
2400.00	0.18516	5.38027	2.81867	18.19427	3.80732	2.25864	0.10449237	2.04671
2600.00	0.17716	5.64452	2.97914	21.39356	4.30543	2.60183	0.07413764	2.28503
2800.00	0.17017	5.87661	3.12970	24.85629	4.84319	2.93459	0.05269774	2.54145
3000.00	0.16452	6.07814	3.27043	28.56986	5.42041	3.27017	0.03749990	2.81704
3200.00	0.15956	6.25549	3.40255	32.54451	6.03725	3.59264	0.02752007	3.11101
3400.00	0.15556	6.41189	3.53617	36.77972	6.69373	3.90888	0.02010311	3.42334
3600.00	0.15270	6.54864	3.66132	41.26634	7.38993	4.21224	0.01481322	3.75496
3800.00	0.14971	6.67045	3.79815	46.01397	8.12578	4.50863	0.01101351	4.10483
4000.00	0.14754	6.77779	3.92667	51.01429	8.90131	4.79631	0.00826015	4.47386
4200.00	0.14548	6.87362	4.04698	56.27417	9.71655	5.07533	0.00624904	4.86138
4400.00	0.14359	6.95935	4.15911	61.79287	10.57154	5.34594	0.00476746	5.26751
4600.00	0.14213	7.03581	4.26309	67.56552	11.46622	5.60859	0.00366657	5.69265
4800.00	0.14075	7.10467	4.35896	73.59709	12.40065	5.86323	0.00284204	6.13641
5000.00	0.13954	7.16646	4.44673	79.88277	13.37479	6.11051	0.00221942	6.59918
5200.00	0.13856	7.22245	4.52645	86.42270	14.38867	6.35059	0.00174571	7.08060
5400.00	0.13769	7.27325	4.59812	93.22938	15.44231	6.58360	0.00138258	7.56073
5600.00	0.13693	7.31922	4.66176	100.28627	16.53567	6.81047	0.00110217	8.09984
5800.00	0.13625	7.36119	4.71739	107.60142	17.66878	7.03066	0.00088417	8.63765
6000.00	0.13565	7.39942	4.76502	115.17216	18.84162	7.24527	0.00071354	9.19438

T1 = 950.00 ALPHA = 0.10

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.46282	2.16066	1.35871	2.92927	1.28933	0.13394	0.87706931	0.92346
1200.00	0.36335	2.75214	1.55963	4.29234	1.46015	0.32845	0.72495267	1.02053
1400.00	0.30288	3.30166	1.78903	5.90677	1.65534	0.58407	0.56441018	1.14077
1600.00	0.26325	3.79869	2.04128	7.77319	1.87716	0.88052	0.42219528	1.28373
1800.00	0.2351	4.24069	2.33253	9.89153	2.12649	1.20242	0.30804214	1.44643
2000.00	0.216 7	4.62623	2.64440	12.25740	2.40387	1.53491	0.22156613	1.62898
2200.00	0.20127	4.96041	2.99443	14.87757	2.70968	1.88163	0.15639621	1.82986
2400.00	0.18994	5.26759	3.37301	17.75709	3.04414	2.22498	0.11316583	2.04875
2600.00	0.18047	5.52592	3.77823	20.87820	3.40722	2.56610	0.08102895	2.28743
2800.00	0.17383	5.75279	4.21644	24.25634	3.79911	2.90176	0.05832854	2.54429
3000.00	0.16612	5.95179	4.68580	27.88859	4.21985	3.23052	0.04227300	2.81920
3200.00	0.16326	6.12525	5.18639	31.76795	4.66941	3.55157	0.03066864	3.11346
3400.00	0.15929	6.27802	5.71837	35.90005	5.14788	3.86415	0.02272892	3.42619
3600.00	0.15545	6.41219	6.28181	40.28010	5.65523	4.16809	0.01687780	3.75797
3800.00	0.15311	6.53115	6.87682	44.91350	6.19151	4.46318	0.01264188	4.10816
4000.00	0.15067	6.63697	7.50746	49.80029	6.75674	4.74953	0.00955057	4.47691
4200.00	0.14857	6.73061	8.16776	54.93360	7.35088	5.02740	0.00727528	4.86482
4400.00	0.14675	6.81448	8.85179	60.32037	7.97397	5.29692	0.00558756	5.27124
4600.00	0.14515	6.88946	9.57358	65.95696	8.62601	5.55842	0.00432522	5.69654
4800.00	0.14374	6.95693	10.32716	71.84538	9.30701	5.81216	0.00337360	6.14056
5000.00	0.14250	7.01757	11.11255	77.98369	10.01695	6.05847	0.00265055	6.60347
5200.00	0.14139	7.07253	11.92979	84.37375	10.75585	6.29763	0.00209710	7.08502
5400.00	0.14041	7.12219	12.77888	91.01369	11.52373	6.52999	0.00167032	7.58551
5600.00	0.13952	7.16724	13.65985	97.90334	12.32055	6.75583	0.00133891	8.10491
5800.00	0.13873	7.20835	14.57271	105.04529	13.14635	6.97541	0.00107984	8.64300
6000.00	0.13801	7.24584	15.51747	112.43719	14.00110	7.18905	0.00087599	9.19998

T1 = 950.00 ALPHA = 0.20

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.476[illegible]	2.11401	1.3[illegible]66	2.85[illegible]05	1.22489	0.12[illegible]08	0.86[illegible]6969	0.92678
1200.00	0.371[illegible]4	2.69369	1.55[illegible]89	4.16564	1.35978	0.31546	0.7[illegible]864945	1.02324
1400.00	0.309[illegible]0	3.23206	1.7[illegible]285	5.76226	1.51349	0.46[illegible]56	0.56067268	1.14322
1600.00	0.268[illegible]1	3.71668	2.03[illegible]44	7.58[illegible]06	1.68803	0.85915	0.43[illegible]5120	1.20635
1800.00	0.240[illegible]9	4.15130	2.32[illegible]87	9.65[illegible]29	1.88422	1.17708	0.32306913	1.44904
2000.00	0.22656	4.53386	2.63[illegible]92	11.96[illegible]6	2.10259	1.51061	0.23473313	1.63052
2200.00	0.20545	4.86748	2.98[illegible]93	14.52906	2.34308	1.85662	0.16939657	1.83147
2400.00	0.193[illegible]4	5.15894	3.36[illegible]61	17.33547	2.60603	2.19167	0.12209964	2.05105
2600.00	0.18476	5.41226	3.76[illegible]30	20.38429	2.89163	2.53080	0.08820513	2.28978
2800.00	0.177[illegible]7	5.63472	4.20[illegible]19	23.68376	3.19985	2.86449	0.06404061	2.54668
3000.00	0.171[illegible]5	5.82919	4.67[illegible]10	27.22673	3.53074	3.19153	0.04479379	2.82209
3200.00	0.166[illegible]8	5.99970	5.17[illegible]18	31.01952	3.88431	3.51[illegible]86	0.03444547	3.11626
3400.00	0.162[illegible]2	6.14940	5.70[illegible]54	35.05403	4.26059	3.82191	0.02555798	3.42915
3600.00	0.159[illegible]1	6.28120	6.26[illegible]28	39.33461	4.65961	4.12438	0.01912035	3.76088
3800.00	0.156[illegible]0	6.39769	6.85548	43.86065	5.08135	4.41814	0.01442437	4.11121
4000.00	0.153[illegible]2	6.50131	7.48[illegible]21	48.63117	5.52584	4.70328	0.01097204	4.48036
4200.00	0.151[illegible]6	6.59353	[illegible].13[illegible]52	53.64842	5.99310	4.97992	0.00841432	4.86814
4400.00	0.149[illegible]0	6.67558	[illegible].82[illegible]45	58.90631	6.48311	5.24536	0.00650384	5.27489
4600.00	0.146[illegible]6	6.74925	[illegible].54[illegible]05	64.41534	6.99569	5.50[illegible]78	0.00506593	5.70027
4800.00	0.146[illegible]3	6.81519	10.29[illegible]33	70.16467	7.53143	5.76155	0.00397503	6.14467
5000.00	0.145[illegible]6	6.87472	11.07[illegible]35	76.16052	8.08974	6.00690	0.00314129	6.60774
5200.00	0.144[illegible]3	6.92851	11.89[illegible]10	82.40152	8.67083	6.24516	0.00249937	7.08962
5400.00	0.14332	6.97720	12.73[illegible]62	88.88[illegible]89	9.27469	6.47[illegible]65	0.00200160	7.59036
5600.00	0.142[illegible]2	7.02144	13.61792	95.61732	9.90132	6.70164	0.00161298	8.10992
5800.00	0.141[illegible]1	7.06176	14.52[illegible]01	102.59333	10.55074	6.92[illegible]43	0.00130758	8.64826
6000.00	0.140[illegible]7	7.09849	15.46[illegible]90	109.81305	11.22292	7.13330	0.00106603	9.20554

T1 = 950.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.48313	2.06985	1.34441	2.78272	1.18309	0.11537	0.89466708	0.93067
1200.00	0.37915	2.63745	1.54510	4.08304	1.29443	0.30287	0.75216621	1.02597
1400.00	0.31593	3.16522	1.77463	5.62343	1.42139	0.54946	0.59649787	1.14570
1600.00	0.27452	3.64277	2.03260	7.40429	1.56534	0.83799	0.45475498	1.28860
1800.00	0.24584	4.06762	2.31727	9.42576	1.72706	1.15294	0.33618749	1.45081
2000.00	0.22514	4.44172	2.63136	11.68775	1.90692	1.48304	0.24794386	1.63269
2200.00	0.20976	4.76738	2.97529	14.18431	2.10511	1.82062	0.18050585	1.83443
2400.00	0.19787	5.05395	3.34057	16.92854	2.32184	2.15932	0.13127145	2.05365
2600.00	0.18856	5.30322	3.72835	19.91019	2.55713	2.49594	0.09565364	2.29211
2800.00	0.18110	5.52169	4.13992	23.13548	2.81100	2.82701	0.07002531	2.54891
3000.00	0.17506	5.71223	4.57640	26.59844	3.08365	3.15268	0.05157278	2.82457
3200.00	0.17009	5.87930	5.03896	30.30160	3.37495	3.47057	0.03825408	3.11895
3400.00	0.16595	6.02602	5.52870	34.24408	3.68492	3.78611	0.02859360	3.43203
3600.00	0.16246	6.15547	6.04673	38.42600	4.01365	4.08113	0.02154456	3.76377
3800.00	0.15949	6.27009	6.59414	42.85065	4.36107	4.37353	0.01636539	4.11414
4000.00	0.15695	6.37164	7.17196	47.51316	4.72725	4.65741	0.01253131	4.48336
4200.00	0.15476	6.46173	7.78126	52.41277	5.11217	4.93292	0.00967118	4.87158
4400.00	0.15285	6.54227	8.42710	57.55290	5.51584	5.20024	0.00752163	5.27848
4600.00	0.15119	6.61439	9.11450	62.93260	5.93826	5.45963	0.00589360	5.70418
4800.00	0.14972	6.67932	9.84351	68.55331	6.37945	5.71136	0.00465135	6.14854
5000.00	0.14842	6.73755	10.61413	74.41042	6.83938	5.95579	0.00369624	6.61199
5200.00	0.14727	6.79029	11.42640	80.50836	7.31807	6.19315	0.00295683	7.09413
5400.00	0.14624	6.83814	12.28035	86.84675	7.81553	6.42375	0.00238041	7.59500
5600.00	0.14532	6.88145	13.17597	93.42231	8.33174	6.64792	0.00192799	8.11490
5800.00	0.14449	6.92096	14.11329	100.23822	8.86672	6.86591	0.00157065	8.65355
6000.00	0.14374	6.95707	15.09232	107.29419	9.42047	7.07800	0.00128667	9.21099

T1 = 900.00 ALPHA = 0.40

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.49368	2.02641	1.33 59	2.71254	1.1536[illegible]	0.11127	0.90249261	0.93423
1200.00	0.387 9	2.58337	1.54226	3.98422	1.24671	0.29067	0.76498967	1.02771
1400.00	0.32254	3.10036	1.77 34	5.48668	1.3567[illegible]	0.53292	0.61179735	1.14645
1600.00	0.28016	3.56941	2.02571	7.23046	1.47923	0.81735	0.47067212	1.29102
1800.00	0.25040	3.98506	2.30457	9.20500	1.61674	1.12598	0.35313781	1.45324
2000.00	0.22979	4.35184	2.62272	11.41386	1.76972	1.45[illegible]16	0.26117240	1.63542
2200.00	0.21362	4.67454	2.98175	13.86[illegible]5	1.93825	1.79[illegible]43	0.19190084	1.83594
2400.00	0.20159	4.95329	3.38[illegible]88	16.53[illegible]3	2.12249	2.12717	0.14168222	2.05616
2600.00	0.19257	5.19644	3.82[illegible]34	19.45456	2.32252	2.46152	0.10536228	2.29444
2800.00	0.18473	5.41316	4.31[illegible]64	22.60[illegible]3	2.53839	2.79115	0.07827318	2.55110
3000.00	0.17856	5.60048	4.84[illegible]71	25.99[illegible]2	2.77011	3.11456	0.05560709	2.82670
3200.00	0.17350	5.76377	5.43772	29.61267	3.01771	3.43[illegible]71	0.04229409	3.12155
3400.00	0.16927	5.90756	6.[illegible]0[illegible]5	33.46717	3.2812[illegible]	3.73[illegible]69	0.03103083	3.43466
3600.00	0.16571	6.03472	6.22[illegible]17	37.55[illegible]9	3.56061	4.03[illegible]31	0.02415371	3.76660
3800.00	0.16267	6.14725	6.[illegible]1277	41.87[illegible]1	3.[illegible]559[illegible]	4.32937	0.01846876	4.11709
4000.00	0.16009	6.24646	7.43[illegible]67	46.43[illegible]1	4.10714	4.61206	0.01423121	4.48681
4200.00	0.15785	6.33583	8.[illegible]8[illegible]94	51.22[illegible]1	4.49435	4.88[illegible]36	0.01105095	4.87505
4400.00	0.15590	6.41426	8.76[illegible]73	56.25[illegible]0	4.83751	5.15[illegible]36	0.00864604	5.26198
4600.00	0.15420	6.48489	9.48[illegible]93	61.50[illegible]2	5.19655	5.41[illegible]92	0.00681341	5.70800
4800.00	0.15271	6.54847	1[illegible].25[illegible]05	67.00165	5.57157	5.66107	0.00540705	6.15269
5000.00	0.15138	6.60596	11.[illegible]0[illegible]90	72.72970	5.96251	5.90511	0.00431999	6.61610
5200.00	0.15021	6.65749	11.41469	78.68924	6.36940	6.14157	0.00347374	7.09858
5400.00	0.14916	6.70436	12.[illegible]8[illegible]05	84.88419	6.79225	6.37132	0.00281062	7.59979
5600.00	0.14821	6.74701	13.[illegible]34[illegible]1	91.31419	7.23102	6.59403	0.00228761	8.11974
5800.00	0.14737	6.78569	14.43[illegible]54	97.97550	7.68575	6.81184	0.00187245	8.65877
6000.00	0.14660	6.82106	15.[illegible]7472	104.87219	8.15643	7.02317	0.00154096	9.21655

T1 = 950.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.50373	1.98518	1.33277	2.64578	1.13191	0.10435	0.90994860	0.93751
1200.00	0.39506	2.53126	1.55436	3.88804	1.21480	0.27867	0.77709260	1.03058
1400.00	0.32903	3.03920	1.76407	5.36132	1.30895	0.51647	0.62683278	1.15069
1600.00	0.28552	3.49873	2.01778	7.06316	1.41552	0.79714	0.46631178	1.29350
1800.00	0.25590	3.90785	2.30169	8.99544	1.53517	1.10515	0.30807791	1.45524
2000.00	0.23430	4.26806	2.61416	11.15739	1.66819	1.42916	0.17458820	1.63705
2200.00	0.21821	4.58277	2.95408	13.54785	1.81474	1.76115	0.08337263	1.83849
2400.00	0.20559	4.85703	3.32194	16.16446	1.97493	2.09535	0.03032401	2.05843
2600.00	0.19616	5.09776	3.71859	19.01667	2.14885	2.42751	0.01131957	2.29672
2800.00	0.18837	5.30876	4.14334	22.10219	2.33659	2.75513	0.00377423	2.55332
3000.00	0.18210	5.49163	4.59695	25.40945	2.53801	3.07691	0.00107464	2.82960
3200.00	0.17691	5.65263	5.08147	28.94977	2.75329	3.39128	0.00056292	3.12409
3400.00	0.17259	5.79396	5.59798	32.71850	2.98239	3.69775	0.00029170	3.43742
3600.00	0.16895	5.91660	6.14659	36.71791	3.22531	3.99590	0.00015077	3.76929
3800.00	0.16586	6.02900	6.73138	40.94522	3.48207	4.28567	0.00013772	4.12012
4000.00	0.16323	6.12633	7.41137	45.39837	3.75267	4.56712	0.00007744	4.49003
4200.00	0.16094	6.21341	8.06169	50.08441	4.03713	4.84024	0.00005872	4.87832
4400.00	0.15896	6.29095	8.74783	54.99760	4.33544	5.10535	0.00008152	5.28563
4600.00	0.15722	6.36037	9.45586	60.13956	4.64763	5.36264	0.00003011	5.71176
4800.00	0.15570	6.42278	10.19978	65.51096	4.97362	5.61239	0.00004707	6.15666
5000.00	0.15435	6.47899	10.97564	71.11100	5.31351	5.85490	0.00001684	6.62041
5200.00	0.15314	6.52981	11.78296	76.94047	5.66726	6.09043	0.00005434	7.10296
5400.00	0.15207	6.57576	12.62174	82.99756	6.03486	6.31932	0.00009627	7.60448
5600.00	0.15111	6.61754	13.49202	89.28396	6.41634	6.54182	0.00009548	8.12480
5800.00	0.15025	6.65566	14.39381	95.80020	6.81165	6.75820	0.00021641	8.66388
6000.00	0.14947	6.69031	15.32710	102.54607	7.22084	6.96877	0.00063209	9.22204

T1 = 950.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.514[illegible]1	1.94549	1.32[illegible]68	2.58144	1.11509	0.09773	0.91692955	0.94080
1200.00	0.403[illegible]0	2.48138	1.53[illegible]42	3.79756	1.18869	0.26735	0.78879709	1.03335
1400.00	0.335[illegible]9	2.97983	1.75773	5.23775	1.27206	0.50853	0.64136060	1.15316
1600.00	0.291[illegible]6	3.43097	2.01163	6.90256	1.36642	0.77727	0.50170647	1.29573
1800.00	0.260[illegible]3	3.83249	2.29[illegible]16	8.79234	1.47230	1.08187	0.38267766	1.45745
2000.00	0.236[illegible]4	4.18515	2.[illegible]0547	10.90431	1.58996	1.40306	0.28792396	1.63966
2200.00	0.222[illegible]3	4.49582	2.[illegible]4545	13.24671	1.71962	1.73201	0.21503276	1.84032
2400.00	0.209[illegible]5	4.76533	3.31729	15.80709	1.86130	2.06376	0.16019301	2.06025
2600.00	0.199[illegible]6	5.00107	3.71[illegible]39	18.59503	2.01512	2.39389	0.11951512	2.29891
2800.00	0.192[illegible]3	5.20743	4.14998	21.61074	2.18111	2.71969	0.08950840	2.55598
3000.00	0.185[illegible]2	5.38730	4.61[illegible]17	24.84719	2.35929	3.03961	0.06738569	2.83225
3200.00	0.180[illegible]3	5.54534	5.10[illegible]17	28.30991	2.54960	3.35234	0.05105595	3.12682
3400.00	0.175[illegible]2	5.68426	5.62[illegible]64	31.99716	2.75228	3.65725	0.03895256	3.44021
3600.00	0.17221	5.80675	6.18[illegible]95	35.90856	2.96709	3.95399	0.02993483	3.77231
3800.00	0.169[illegible]6	5.91507	6.76[illegible]96	40.04476	3.19419	4.24241	0.02317511	4.12320
4000.00	0.166[illegible]7	6.01080	7.38[illegible]06	44.40219	3.43345	4.52260	0.01807350	4.49315
4200.00	0.164[illegible]4	6.09618	8.03[illegible]37	48.98508	3.68501	4.79457	0.01419605	4.88174
4400.00	0.162[illegible]1	6.17236	8.71[illegible]92	53.79112	3.94861	5.05856	0.01123278	5.28923
4600.00	0.160[illegible]4	6.24056	9.42[illegible]75	58.82219	4.22485	5.31479	0.00894828	5.71545
4800.00	0.158[illegible]8	6.30184	10.16789	64.07643	4.51317	5.56355	0.00717583	6.16058
5000.00	0.157[illegible]0	6.35712	10.[illegible]4134	69.55561	4.[illegible]1374	5.80509	0.00579143	6.62445
5200.00	0.156[illegible]8	6.40690	11.74[illegible]21	75.256[illegible]2	5.12657	6.03973	0.00470278	7.10736
5400.00	0.15499	6.45201	12.58241	81.18181	5.45165	6.26775	0.00384131	7.60913
5600.00	0.154[illegible]1	6.49303	13.45002	87.33132	5.78899	6.48942	0.00315538	8.12970
5800.00	0.15313	6.53037	14.34903	93.70447	6.13859	6.70501	0.00260594	8.66917
6000.00	0.152[illegible]3	6.56449	15.27[illegible]47	100.30195	6.50045	6.91480	0.00216329	9.22745

TI = 950.00 ALPHA = 0.70

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.52481	1.90727	1.32[illegible]	2.51937	1.10172	0.09142	0.92345949	0.94411
1200.00	0.41045	2.43341	1.52[illegible]	3.70941	1.16784	0.25816	0.80001080	1.03608
1400.00	0.34216	2.92265	1.73[illegible]	5.11662	1.24277	0.48496	0.65545615	1.15564
1600.00	0.29712	3.36563	2.00[illegible]	6.74755	1.32742	0.75761	0.51560940	1.29794
1800.00	0.26596	3.75991	2.23[illegible]	8.59603	1.42237	1.05899	0.39755527	1.45968
2000.00	0.24347	4.10726	2.59[illegible]	10.66594	1.52787	1.37694	0.30138416	1.64143
2200.00	0.22668	4.41142	2.93[illegible]	12.95529	1.64409	1.70341	0.22678739	1.84246
2400.00	0.21356	4.67603	3.30[illegible]	15.46119	1.77109	2.03261	0.17022070	2.06255
2600.00	0.20374	4.90830	3.70[illegible]	18.19217	1.90895	2.36161	0.12794018	2.30091
2800.00	0.19586	5.11100	4.13[illegible]	21.14242	2.05772	2.68445	0.09649460	2.55802
3000.00	0.18914	5.28706	4.59739	24.30666	2.21739	3.00270	0.07313305	2.83468
3200.00	0.18373	5.44264	5.08[illegible]	27.69705	2.38802	3.31371	0.05577784	3.12916
3400.00	0.17925	5.57890	5.61117	31.30415	2.56955	3.61713	0.04262340	3.44279
3600.00	0.17547	5.69888	6.16634	35.12987	2.76211	3.91250	0.03310890	3.77530
3800.00	0.17226	5.80527	6.74552	39.17699	2.96568	4.19960	0.02578337	4.12631
4000.00	0.16951	5.89951	7.36[illegible]	43.44239	3.18009	4.47850	0.02022244	4.49627
4200.00	0.16713	5.98324	8.01[illegible]	47.92548	3.40549	4.74932	0.01597300	4.88516
4400.00	0.16506	6.05823	8.69750	52.63090	3.64192	5.01217	0.01270434	5.29262
4600.00	0.16326	6.12528	9.39[illegible]	57.55404	3.88937	5.26735	0.01017231	5.71905
4800.00	0.16167	6.18532	10.13599	62.69432	4.14765	5.51513	0.00819761	6.16452
5000.00	0.16027	6.23954	10.90[illegible]	68.05529	4.41702	5.75573	0.00664770	6.62870
5200.00	0.15902	6.28847	11.70[illegible]	73.63440	4.69736	5.98947	0.00542314	7.11181
5400.00	0.15791	6.33286	12.54[illegible]	79.43356	4.98869	6.21661	0.00444967	7.61371
5600.00	0.15691	6.37311	13.40[illegible]	85.45175	5.29100	6.43744	0.00367102	8.13457
5800.00	0.15601	6.40984	14.30[illegible]	91.68801	5.60430	6.65223	0.00304463	8.67422
6000.00	0.15520	6.44329	15.23[illegible]	98.14336	5.92858	6.86126	0.00253783	9.23287

T1 = 950.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.534[illegible]	1.67042	1.31492	2.45965	1.09162	0.08540	0.92956118	0.94745
1200.00	0.418[illegible]	2.38722	1.51[illegible]44	3.62484	1.15097	0.24531	0.81074108	1.03880
1400.00	0.346[illegible]4	2.86750	1.74[illegible]94	5.00365	1.21895	0.46975	0.66911702	1.15815
1600.00	0.302[illegible]9	3.30265	1.99762	6.59[illegible]6	1.29570	0.73873	0.53101887	1.30018
1800.00	0.271[illegible]0	3.69000	2.27[illegible]60	8.40804	1.38175	1.03649	0.41209911	1.46190
2000.00	0.246[illegible]6	4.03124	2.56[illegible]16	10.43347	1.47736	1.35142	0.31478937	1.64362
2200.00	0.231[illegible]1	4.32869	2.92[illegible]00	12.67064	1.58264	1.67547	0.23859023	1.84517
2400.00	0.217[illegible]2	4.59104	3.29[illegible]69	15.13865	1.69772	2.00202	0.18045089	2.06432
2600.00	0.207[illegible]5	4.81615	3.59[illegible]32	17.79[illegible]40	1.[illegible]2261	2.32709	0.13955734	2.30330
2800.00	0.199[illegible]1	5.01724	4.12[illegible]26	20.66[illegible]37	1.95737	2.64975	0.10360341	2.56052
3000.00	0.192[illegible]0	5.19053	4.58[illegible]59	23.7866[illegible]	2.10201	2.96[illegible]18	0.07910910	2.83706
3200.00	0.187[illegible]5	5.34343	5.[illegible]7.58	27.10499	2.25657	3.27553	0.06071013	3.13165
3400.00	0.182[illegible]8	5.47716	5.59[illegible]24	30.63[illegible]3	2.42104	3.57745	0.04869977	3.44550
3600.00	[illegible].178[illegible]1	5.59551	6.14[illegible]73	34.38[illegible]28	2.59543	3.87132	0.03647653	3.77782
3800.00	0.175[illegible]5	5.69950	6.72[illegible]05	38.34[illegible]80	2.77975	4.15719	0.02856473	4.12939
4000.00	0.172[illegible]5	5.79219	7.34[illegible]38	42.51[illegible]89	2.97401	4.43403	0.02252690	4.49942
4200.00	0.170[illegible]3	5.87452	7.98469	46.90621	3.17821	4.70446	0.01768735	4.88844
4400.00	0.168[illegible]2	5.94807	8.66[illegible]05	51.51057	3.39235	4.96823	0.01429925	5.29623
4600.00	0.166[illegible]8	6.01386	9.36[illegible]59	56.32880	3.61643	5.22[illegible]38	0.01150568	5.72294
4800.00	0.165[illegible]6	6.07299	1[illegible].10407	61.36192	3.85046	5.46714	0.00931653	6.16847
5000.00	0.163[illegible]3	6.12627	10.87[illegible]78	66.60980	4.09444	5.70[illegible]79	0.00758992	6.63287
5200.00	0.161[illegible]6	6.17438	11.67[illegible]65	72.07137	4.34837	5.93[illegible]61	0.00621950	7.11616
5400.00	0.160[illegible]2	6.21796	12.50[illegible]71	77.74765	4.61225	6.16500	0.00512516	7.61832
5600.00	0.159[illegible]1	6.25752	13.36[illegible]97	83.63782	4.88609	6.38589	0.00424607	8.13945
5800.00	0.158[illegible]9	6.29360	14.25[illegible]45	89.74330	5.16989	6.59988	0.00353591	8.67935
6000.00	0.158[illegible]7	6.32645	15.18[illegible]15	96.06[illegible]80	5.46364	6.80[illegible]14	0.00295899	9.23829

T1 = 950.00 ALPHA = 0.70

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.54459	1.83468	1.30784	2.40150	1.68175	0.07968	0.93525619	0.95081
1200.00	0.42696	2.34267	1.51237	3.54300	1.13693	0.23478	0.82099542	1.04152
1400.00	0.35583	2.81427	1.73849	4.89257	1.19915	0.45497	0.66234794	1.16068
1600.00	0.30856	3.24188	1.99776	6.45381	1.26934	0.72004	0.54013157	1.30244
1800.00	0.27655	3.62257	2.27778	8.22613	1.34807	1.01437	0.42649072	1.46413
2000.00	0.25256	3.95794	2.57944	10.20920	1.43547	1.32634	0.32817516	1.64581
2200.00	0.23520	4.25166	2.91782	12.40342	1.53171	1.64741	0.25056047	1.84675
2400.00	0.22148	4.50695	3.28477	14.80430	1.63688	1.97208	0.19376366	2.06716
2600.00	0.21059	4.73061	3.68220	17.41984	1.75103	2.29569	0.14535355	2.30601
2800.00	0.20278	4.92670	4.10964	20.24796	1.87419	2.61553	0.11110492	2.56308
3000.00	0.19618	5.09742	4.56778	23.28386	2.00634	2.93006	0.08530582	2.83945
3200.00	0.19057	5.24726	5.05722	26.53146	2.14757	3.23765	0.06566959	3.13444
3400.00	0.18591	5.37891	5.57927	29.98689	2.29786	3.53821	0.05117992	3.44830
3600.00	0.18198	5.49499	6.12504	33.65179	2.45722	3.83070	0.04002985	3.78093
3800.00	0.17864	5.59770	6.70568	37.53597	2.62565	4.11515	0.03152131	4.13228
4000.00	0.17579	5.68866	7.31201	41.62945	2.80315	4.39157	0.02498918	4.50261
4200.00	0.17332	5.76966	7.95483	45.92276	2.98973	4.66002	0.01994391	4.89169
4400.00	0.17118	5.84188	8.63259	50.43051	3.18543	4.92070	0.01602150	5.29976
4600.00	0.16930	5.90671	9.33586	55.15016	3.39014	5.17377	0.01295306	5.72650
4800.00	0.16765	5.96471	10.07213	60.07735	3.60404	5.41955	0.01053657	6.17236
5000.00	0.16619	6.01707	10.83946	65.21570	3.82694	5.65825	0.00862203	6.63697
5200.00	0.16490	6.06442	11.63586	70.56474	4.05901	5.89016	0.00709577	7.12040
5400.00	0.16374	6.10717	12.46434	76.12177	4.30015	6.11553	0.00587158	7.62293
5600.00	0.16271	6.14605	13.32392	81.88951	4.55039	6.33475	0.00488417	8.14427
5800.00	0.16177	6.18151	14.21463	87.86785	4.80965	6.54794	0.00408327	8.68445
6000.00	0.16093	6.21380	15.13746	94.05489	5.07805	6.75544	0.00343009	9.24366

T1 = 650.00 ALPHA = 1.00

UN1	U 2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.55527	1.80093	1.30274	2.34612	1.07411	0.07411	0.94065847	0.95396
1200.00	0.43465	2.29965	1.39169	3.46387	1.12511	0.22460	0.83078086	1.04428
1400.00	0.34152	2.76304	1.47280	4.78550	1.16247	0.44146	0.69518426	1.16316
1600.00	0.31414	3.18332	1.56869	6.31469	1.24714	0.70169	0.50035043	1.30467
1800.00	0.28110	3.55756	2.26393	8.05087	1.31957	0.99264	0.44071942	1.46636
2000.00	0.25725	3.86722	2.37159	9.99205	1.40615	1.30155	0.34152583	1.64800
2200.00	0.23950	4.17530	2.48753	12.13946	1.48877	1.62716	0.26254961	1.84924
2400.00	0.22559	4.42702	3.27193	14.49359	1.56553	1.94227	0.20125297	2.06938
2600.00	0.21514	4.64616	3.37117	17.05963	1.63986	2.26346	0.15438381	2.30760
2800.00	0.20694	4.83932	4.19440	19.82830	1.80404	2.58169	0.11872024	2.56564
3000.00	0.19970	5.00752	4.33193	22.79852	1.92572	2.89436	0.09171510	2.84187
3200.00	0.19410	5.15474	5.13965	25.97019	2.03574	3.20052	0.07123437	3.13707
3400.00	0.18923	5.28462	5.35132	29.36830	2.13490	3.49926	0.05566679	3.45072
3600.00	0.18523	5.39063	5.56084	32.96190	2.24077	3.79132	0.04377814	3.78339
3800.00	0.18173	5.49955	6.58413	36.75976	2.49508	4.07350	0.03465347	4.13510
4000.00	0.17863	5.58577	7.29962	40.76236	2.65942	4.34872	0.02761129	4.50576
4200.00	0.17641	5.65847	7.93394	44.97336	2.83095	4.61598	0.02214509	4.89497
4400.00	0.17453	5.73952	8.81512	49.38990	3.01203	4.87554	0.01787440	5.30316
4600.00	0.17252	5.80305	9.33718	54.01090	3.19959	5.12760	0.01451694	5.73030
4800.00	0.17054	5.86635	10.04119	58.83971	3.39541	5.37234	0.01186156	6.17606
5000.00	0.16916	5.91172	10.80413	63.87097	3.58152	5.61011	0.00974780	6.64100
5200.00	0.16763	5.95825	11.59264	69.10905	3.78152	5.84112	0.00805557	7.12470
5400.00	0.16656	6.00024	12.42494	74.55265	4.03714	6.06569	0.00669263	7.62750
5600.00	0.16530	6.03856	13.28187	80.20345	4.26749	6.28400	0.00558897	8.14895
5800.00	0.16445	6.07338	14.19680	86.05854	4.50619	6.49649	0.00469019	8.68946
6000.00	0.16370	6.10510	15.16477	92.11838	4.75321	6.70313	0.00395442	9.25049

T1 = 1000.00 ALPHA = 0.

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.46777	2.13782	1.38517	2.85432	1.37501	0.12365	0.98368749	0.90676
1200.00	0.36580	2.73370	1.52463	4.18154	1.59555	0.30948	0.73362546	0.99713
1400.00	0.30385	3.29107	1.74117	5.75332	1.84947	0.45435	0.57329649	1.11084
1600.00	0.26380	3.79801	1.99429	7.57010	2.13763	0.84466	0.42970129	1.24544
1800.00	0.23524	4.25095	2.26565	9.63201	2.46143	1.15924	0.31370809	1.39947
2000.00	0.21409	4.65133	2.56479	11.93896	2.82167	1.48915	0.22556414	1.57189
2200.00	0.19907	5.00085	2.89459	14.48445	3.21864	1.82670	0.16094327	1.76324
2400.00	0.18695	5.30937	3.25514	17.26273	3.65277	2.16560	0.11468080	1.97128
2600.00	0.17925	5.57866	3.64516	20.32396	4.12411	2.50260	0.08187225	2.19739
2800.00	0.17147	5.81482	4.06771	23.61234	4.63280	2.83491	0.05872394	2.44090
3000.00	0.16668	6.02117	4.50790	27.14286	5.17887	3.16100	0.04238334	2.70255
3200.00	0.16123	6.20247	4.98690	30.91867	5.76239	3.47967	0.03061767	2.98170
3400.00	0.15718	6.36222	5.49161	34.94010	6.38541	3.79026	0.02258982	3.27853
3600.00	0.15378	6.50280	6.02771	39.20347	7.04191	4.09251	0.01669721	3.59329
3800.00	0.15089	6.62756	6.59569	43.71332	7.73797	4.38621	0.01244778	3.92569
4000.00	0.14841	6.73797	7.19579	48.46463	8.47155	4.67148	0.00935841	4.27611
4200.00	0.14627	6.83647	7.82808	53.46176	9.24267	4.94838	0.00709492	4.64421
4400.00	0.14441	6.92459	8.47761	58.70394	10.05141	5.21711	0.00542296	5.03005
4600.00	0.14279	7.00331	9.16539	64.18856	10.89786	5.47798	0.00417775	5.43391
4800.00	0.14136	7.07423	9.88346	69.91787	11.78151	5.73121	0.00324315	5.85546
5000.00	0.14010	7.13799	10.63165	75.89011	12.70293	5.97712	0.00253612	6.29501
5200.00	0.13897	7.19571	11.41159	82.10720	13.66194	6.21598	0.00199725	6.75234
5400.00	0.13797	7.24804	12.21963	88.56870	14.65854	6.44809	0.00158354	7.22750
5600.00	0.13707	7.29552	13.05914	95.27322	15.69272	6.67375	0.00126365	7.72061
5800.00	0.13626	7.33882	13.92499	102.22241	16.76449	6.89323	0.00101463	8.23154
6000.00	0.13553	7.37835	14.82925	109.41539	17.87385	7.10680	0.00081951	8.76036

T1 = 1000.00 ALPHA = 0.10

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.47835	2.09050	1.32466	2.77946	1.27249	0.11608	0.89255153	0.91030
1200.00	0.37354	2.67422	1.52409	4.07576	1.43765	0.29677	0.74779540	1.00002
1400.00	0.31056	3.22003	1.74226	5.61012	1.62575	0.53909	0.58962605	1.11348
1600.00	0.26916	3.71660	1.98269	7.38374	1.83905	0.82340	0.44648859	1.24785
1800.00	0.24036	4.16036	2.25161	9.39663	2.07867	1.13450	0.32922827	1.40185
2000.00	0.21965	4.55265	2.55469	11.64861	2.34519	1.46126	0.23907054	1.57423
2200.00	0.20420	4.89725	2.88739	14.14027	2.63884	1.79572	0.17229920	1.76470
2400.00	0.19259	5.19772	3.24501	16.86664	2.95989	2.13246	0.12389654	1.97356
2600.00	0.18310	5.46130	3.63106	19.83496	3.30847	2.46730	0.08926068	2.19983
2800.00	0.17567	5.69252	4.04814	23.04410	3.68467	2.79765	0.06458941	2.44352
3000.00	0.16952	5.89555	4.49761	26.49474	4.08858	3.12179	0.04702227	2.70487
3200.00	0.16447	6.07250	4.98055	30.17910	4.52005	3.43804	0.03447178	2.98430
3400.00	0.16053	6.22943	5.47493	34.10571	4.97932	3.74786	0.02547039	3.28123
3600.00	0.15726	6.36702	6.01120	38.26796	5.46623	4.04870	0.01897093	3.59625
3800.00	0.15410	6.48913	6.57945	42.66898	5.98102	4.34108	0.01424764	3.92892
4000.00	0.15157	6.59764	7.17978	47.31016	6.52351	4.62504	0.01078880	4.27929
4200.00	0.14959	6.69406	7.79419	52.18789	7.09377	4.90076	0.00823585	4.64763
4400.00	0.14749	6.78031	8.45168	57.30497	7.69181	5.16839	0.00633703	5.03375
4600.00	0.14582	6.85767	9.13735	62.65119	8.31762	5.42817	0.00491361	5.43763
4800.00	0.14436	6.92716	9.85529	68.25532	8.97122	5.68039	0.00383824	5.85939
5000.00	0.14317	6.98960	10.59941	74.08565	9.65261	5.92535	0.00301962	6.29921
5200.00	0.14192	7.04619	11.37779	80.15603	10.36179	6.16329	0.00239197	6.75672
5400.00	0.14090	7.09744	12.18243	86.46412	11.09876	6.39453	0.00190726	7.23215
5600.00	0.13998	7.14396	13.01434	93.00975	11.86353	6.61936	0.00153035	7.72552
5800.00	0.13915	7.18643	13.88058	99.79495	12.65609	6.83802	0.00123536	8.23666
6000.00	0.13841	7.22512	14.78411	106.81696	13.47645	7.05083	0.00100297	8.76580

T1 = 1000.00 ALPHA = 0.20

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.48861	2.04576	1.52415	2.70891	1.21542	0.11766	0.90100340	0.91348
1200.00	0.38210	2.61714	1.51151	3.97415	1.34485	0.28445	0.76116087	1.00292
1400.00	0.31727	3.15190	1.73438	5.47225	1.49438	0.52225	0.60569269	1.11611
1600.00	0.27414	3.63847	1.98115	7.20474	1.66365	0.80256	0.46301720	1.25028
1800.00	0.24549	4.07344	2.23134	9.17067	1.85382	1.11315	0.34469354	1.40424
2000.00	0.22457	4.45693	2.53152	11.36751	2.06523	1.43402	0.25263275	1.57699
2200.00	0.20658	4.79428	2.87425	13.79910	2.29826	1.76580	0.18375780	1.76760
2400.00	0.19643	5.09093	3.23466	16.46844	2.55292	2.09975	0.13358248	1.97571
2600.00	0.18695	5.34692	3.62253	19.36596	2.82941	2.43245	0.09693345	2.20224
2800.00	0.17935	5.57579	4.03556	22.50140	3.12781	2.76676	0.07074196	2.44586
3000.00	0.17319	5.77396	4.48605	25.86774	3.44811	3.08328	0.05191870	2.70767
3200.00	0.16810	5.94672	4.95819	29.47110	3.79039	3.39843	0.03836898	2.98674
3400.00	0.16378	6.10197	5.45503	33.30478	4.15463	3.70594	0.02856582	3.28395
3600.00	0.16014	6.23880	5.99106	37.36898	4.54085	4.00535	0.02143349	3.59918
3800.00	0.15701	6.35872	6.55521	41.66965	4.94911	4.29635	0.01621223	3.93186
4000.00	0.15423	6.46289	7.14870	46.20120	5.37936	4.57908	0.01236052	4.28255
4200.00	0.15230	6.55749	7.77219	50.96607	5.83161	4.85361	0.00949839	4.65101
4400.00	0.15056	6.64199	8.42673	55.96356	6.30594	5.12013	0.00735530	5.03736
4600.00	0.14886	6.71776	9.11465	61.19469	6.80224	5.37885	0.00573848	5.44147
4800.00	0.14747	6.78583	9.82308	66.65777	7.32065	5.63007	0.00450942	5.86351
5000.00	0.14625	6.84720	10.56695	72.35396	7.86126	5.87405	0.00356631	6.30340
5200.00	0.14497	6.90261	11.34097	78.28229	8.42351	6.11109	0.00284248	6.76122
5400.00	0.14382	6.95289	12.14516	84.44405	9.00800	6.34145	0.00227884	7.23685
5600.00	0.14279	6.99854	12.97955	90.83790	9.61454	6.56543	0.00183818	7.73042
5800.00	0.14204	7.04012	13.84414	97.46434	10.24312	6.78330	0.00149145	8.24190
6000.00	0.14128	7.07808	14.73894	104.32347	10.89374	6.99532	0.00121692	8.77127

T1 = 1000.00 ALPHA = 0.30

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.49952	2.00194	1.31548	2.63951	1.17445	0.10182	0.90069336	0.91719
1200.00	0.39028	2.56227	1.61167	3.87636	1.28375	0.27253	0.77393011	1.00585
1400.00	0.32400	3.08644	1.75130	5.34045	1.40776	0.50582	0.62148881	1.11677
1600.00	0.28052	3.56352	1.97358	7.03289	1.54822	0.78214	0.47927931	1.25270
1800.00	0.25053	3.99001	2.24603	8.95373	1.70585	1.08623	0.36008293	1.40662
2000.00	0.22698	4.36712	2.54240	11.10296	1.86107	1.40681	0.26636687	1.57891
2200.00	0.21287	4.69761	2.86915	13.47814	2.01410	1.73593	0.19546852	1.76960
2400.00	0.20047	4.98819	3.22469	16.08534	2.28513	2.06750	0.14310977	1.97794
2600.00	0.19061	5.24090	3.60518	18.91530	2.51419	2.39805	0.10467616	2.20467
2800.00	0.18302	5.46397	4.02298	21.98143	2.76140	2.72427	0.07717123	2.44807
3000.00	0.17673	5.65833	4.46819	25.27076	3.02675	3.04490	0.05708437	2.70992
3200.00	0.17156	5.82869	4.93477	28.78659	3.31025	3.35800	0.04250170	2.98966
3400.00	0.16725	5.97915	5.44108	32.53381	3.61202	3.66454	0.03167603	3.28693
3600.00	0.16352	6.11175	5.97311	36.50614	3.93197	3.96245	0.02408809	3.60212
3800.00	0.16053	6.22952	6.53495	40.70956	4.27019	4.25209	0.01834518	3.93481
4000.00	0.15749	6.33355	7.12462	45.13667	4.62656	4.53357	0.01407889	4.28572
4200.00	0.15500	6.42653	7.74523	49.79429	5.00122	4.80688	0.01088810	4.65423
4400.00	0.15313	6.50919	8.39976	54.67567	5.39411	5.07231	0.00848313	5.04091
4600.00	0.15170	6.58346	9.08130	59.78660	5.80525	5.32998	0.00665774	5.44527
4800.00	0.15057	6.65031	9.79286	65.12556	6.23467	5.58019	0.00526197	5.86745
5000.00	0.14972	6.71043	10.53446	70.69077	6.68232	5.82322	0.00418697	6.30761
5200.00	0.14792	6.76482	11.30613	76.48340	7.14823	6.05933	0.00335332	6.76562
5400.00	0.14675	6.81413	12.10788	82.50462	7.63241	6.28882	0.00270245	7.24149
5600.00	0.14550	6.85888	12.93972	88.75284	8.13484	6.51196	0.00219093	7.73534
5800.00	0.14493	6.89967	13.80168	95.22710	8.65553	6.72902	0.00178642	8.24705
6000.00	0.14416	6.93697	14.69377	101.93020	9.19445	6.94027	0.00146459	8.77660

T1 = 1000.00 ALPHA = 0.40

UM1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.51013	1.96028	1.51279	2.57344	1.14664	0.09516	0.91598783	0.92064
1200.00	0.39849	2.50944	1.50716	3.78219	1.24045	0.26102	0.78611185	1.00884
1400.00	0.33074	3.02353	1.72025	5.21333	1.34651	0.40979	0.63662017	1.12142
1600.00	0.28641	3.49148	1.96797	6.86704	1.46643	0.76213	0.49525536	1.25512
1800.00	0.25577	3.90983	2.23870	8.74511	1.60107	1.06273	0.37537164	1.40900
2000.00	0.23356	4.27936	2.53420	10.84467	1.75064	1.38632	0.28008655	1.58144
2200.00	0.21716	4.60484	2.85103	13.16999	1.91545	1.70647	0.20734729	1.77156
2400.00	0.20458	4.88617	3.21444	15.71270	2.09551	2.03592	0.15303082	1.98074
2600.00	0.19456	5.13704	3.59761	18.48206	2.29101	2.36411	0.11307489	2.20708
2800.00	0.18671	5.35600	4.01385	21.47942	2.50199	2.68861	0.08385896	2.45054
3000.00	0.18029	5.54654	4.45213	24.69399	2.72843	3.00714	0.06250064	2.71251
3200.00	0.17500	5.71443	4.92284	28.13427	2.97048	3.31905	0.04668022	2.99198
3400.00	0.17061	5.86144	5.42413	31.79324	3.22787	3.62354	0.03540514	3.28970
3600.00	0.16690	5.99160	5.95453	35.67719	3.50090	3.92000	0.02693745	3.60501
3800.00	0.16375	6.10702	6.51465	39.78511	3.78949	4.20831	0.02064969	3.93793
4000.00	0.16105	6.20911	7.10452	44.11277	4.09362	4.48853	0.01594801	4.28901
4200.00	0.15872	6.30021	7.72422	48.66416	4.41336	4.76168	0.01240892	4.65782
4400.00	0.15670	6.38163	8.37378	53.43842	4.74861	5.02494	0.00972566	5.04441
4600.00	0.15493	6.45446	9.05324	58.43395	5.09944	5.28156	0.00767651	5.44900
4800.00	0.15337	6.51999	9.76262	63.65220	5.46586	5.53376	0.00610068	5.87144
5000.00	0.15200	6.57907	10.50196	69.09319	5.84789	5.77282	0.00488037	6.31174
5200.00	0.15078	6.63240	11.27127	74.75553	6.24544	6.00602	0.00392692	6.77001
5400.00	0.14968	6.68076	12.07057	80.64059	6.65853	6.23664	0.00318223	7.24614
5600.00	0.14870	6.72474	12.89988	86.74839	7.08731	6.45893	0.00259251	7.74014
5800.00	0.14783	6.76472	13.75921	93.07720	7.53163	6.67520	0.00212385	8.25216
6000.00	0.14706	6.80127	14.64857	99.62884	7.99152	6.88567	0.00174922	8.78204

T1 = 1000.00 ALPHA = 0.50

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.52077	1.92025	1.30703	2.50979	1.12023	0.08864	0.92279753	0.92411
1200.00	0.40670	2.45880	1.50142	3.69179	1.20815	0.24981	0.79777952	1.01164
1400.00	0.33748	2.96312	1.71417	5.09116	1.30081	0.47412	0.65130477	1.12404
1600.00	0.29221	3.42220	1.90832	6.70861	1.40553	0.74253	0.51093389	1.25756
1800.00	0.26041	3.83276	2.22433	8.54456	1.52297	1.03964	0.39054403	1.41137
2000.00	0.23833	4.19584	2.52600	10.59876	1.65345	1.35407	0.29368417	1.58358
2200.00	0.22158	4.51313	2.85078	12.86596	1.79713	1.67792	0.21927119	1.77460
2400.00	0.20858	4.79424	3.20425	15.36194	1.95423	2.00435	0.16321924	1.98252
2600.00	0.19852	5.03716	3.58440	18.08526	2.12469	2.33059	0.12151656	2.20943
2800.00	0.19041	5.25187	3.99769	20.99536	2.30866	2.65283	0.09079722	2.45315
3000.00	0.18386	5.43882	4.43512	24.13619	2.50611	2.96985	0.06816486	2.71522
3200.00	0.17866	5.60346	4.90791	27.50136	2.71709	3.26811	0.05148774	2.99492
3400.00	0.17395	5.74876	5.40718	31.08456	2.94162	3.56289	0.03915476	3.29217
3600.00	0.17018	5.87619	5.93594	34.88069	3.17967	3.87797	0.02998399	3.60779
3800.00	0.16696	5.98934	6.49434	38.89670	3.43131	4.16495	0.02312991	3.94097
4000.00	0.16421	6.08966	7.08241	43.12945	3.69643	4.44390	0.01797275	4.29212
4200.00	0.16183	6.17923	7.70022	47.58145	3.97524	4.71483	0.01406701	4.66095
4400.00	0.15977	6.25905	8.34779	52.24922	4.26757	4.97799	0.01108776	5.04782
4600.00	0.15797	6.33041	9.02515	57.13291	4.57347	5.23357	0.00879957	5.45274
4800.00	0.15638	6.39479	9.73237	62.23647	4.89295	5.48176	0.00703046	5.87530
5000.00	0.15497	6.45271	10.46944	67.55631	5.22602	5.72267	0.00565309	6.31588
5200.00	0.15373	6.50506	11.23639	73.09342	5.57267	5.95716	0.00457369	6.77436
5400.00	0.15261	6.55253	12.03325	78.84821	5.93290	6.18490	0.00372237	7.25073
5600.00	0.15162	6.59565	12.86002	84.82022	6.30672	6.40636	0.00304676	7.74502
5800.00	0.15072	6.63497	13.71672	91.01004	6.69412	6.62181	0.00250737	8.25720
6000.00	0.14991	6.67081	14.60336	97.41620	7.09510	6.83152	0.00207421	8.78739

T1 = 1000.00 ALPHA = 0.60

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.53144	1.88167	1.30821	2.44844	1.11023	0.08281	0.92914803	0.92760
1200.00	0.41490	2.41019	1.49564	3.60479	1.18313	0.23693	0.86794518	1.01436
1400.00	0.34423	2.90500	1.71205	4.97361	1.26542	0.45863	0.80553490	1.12665
1600.00	0.29651	3.35557	1.95364	6.55559	1.35834	0.72361	0.75261376	1.25997
1800.00	0.26612	3.75765	2.22169	8.34906	1.46248	1.01717	0.40550218	1.41414
2000.00	0.24356	4.11418	2.51772	10.35830	1.57814	1.32850	0.30761705	1.58628
2200.00	0.22558	4.42709	2.84160	12.58006	1.70559	1.64934	0.25139930	1.77666
2400.00	0.21272	4.70104	3.19392	15.01475	1.84482	1.97374	0.17351755	1.98549
2600.00	0.20238	4.94114	3.57496	17.66449	1.99594	2.29748	0.13018936	2.21172
2800.00	0.19411	5.15186	3.98501	20.53009	2.15901	2.61775	0.09798232	2.45566
3000.00	0.18742	5.33552	4.42419	23.60486	2.33402	2.93293	0.07407677	2.71774
3200.00	0.18191	5.49726	4.89245	26.89500	2.52103	3.24150	0.05633298	2.99751
3400.00	0.17733	5.63934	5.39016	30.39694	2.72002	3.54283	0.04311561	3.29524
3600.00	0.17345	5.76526	5.91734	34.11499	2.93103	3.83534	0.03322920	3.61046
3800.00	0.17018	5.87610	6.47401	38.04249	3.15404	4.12201	0.02578847	3.94392
4000.00	0.16737	5.97473	7.06028	42.18327	3.38908	4.39909	0.02015629	4.29519
4200.00	0.16495	6.06232	7.67617	46.53536	3.63614	4.66950	0.01586459	4.66449
4400.00	0.16285	6.14074	8.32175	51.10169	3.89523	4.93153	0.01257317	5.05152
4600.00	0.16100	6.21101	8.99705	55.88074	4.16634	5.18602	0.01003152	5.45645
4800.00	0.15938	6.27428	9.70210	60.87349	4.44952	5.43319	0.00805583	5.87915
5000.00	0.15795	6.33114	10.43691	66.07751	4.74471	5.67334	0.00650965	6.31995
5200.00	0.15668	6.38262	11.20151	71.49494	5.05193	5.90671	0.00529203	6.77856
5400.00	0.15554	6.42910	11.99591	77.12294	5.37121	6.13359	0.00432697	7.25530
5600.00	0.15452	6.47149	12.82014	82.96547	5.70253	6.35421	0.00355763	7.74979
5800.00	0.15361	6.51005	13.67421	89.01977	6.04588	6.56886	0.00294060	8.26228
6000.00	0.15278	6.54526	14.55812	95.28670	6.40127	6.77779	0.00244296	8.79270

T1 = 1000.00 ALPHA = 0.70

UN1	UN2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.54214	1.84453	1.29031	2.38923	1.09745	0.07708	0.93506342	0.93111
1200.00	0.42311	2.36343	1.48482	3.52108	1.16317	0.22436	0.81961114	1.01707
1400.00	0.35110	2.84900	1.70568	4.86007	1.23719	0.44393	0.67930900	1.12928
1600.00	0.30362	3.29141	1.94193	6.40819	1.32071	0.70446	0.54138066	1.26239
1800.00	0.27121	3.68715	2.21450	8.16521	1.41429	0.99467	0.42046121	1.41611
2000.00	0.24789	4.03723	2.50949	10.13137	1.51823	1.30297	0.32144031	1.56823
2200.00	0.23016	4.34486	2.83243	12.30659	1.63262	1.62104	0.24305761	1.77843
2400.00	0.21672	4.61426	3.18370	14.69042	1.75765	1.94295	0.18407863	1.98704
2600.00	0.20623	4.84894	3.56355	17.27943	1.89332	2.26474	0.13908328	2.21389
2800.00	0.19790	5.05563	3.97231	20.08256	2.03973	2.58306	0.10540368	2.45801
3000.00	0.19098	5.23620	4.41006	23.09195	2.19686	2.89640	0.08022792	2.72015
3200.00	0.18534	5.39545	4.87700	26.31359	2.36478	3.20323	0.06141233	2.99981
3400.00	0.18067	5.53501	5.37317	29.74858	2.54342	3.50301	0.04729891	3.29763
3600.00	0.17675	5.65777	5.89868	33.37337	2.73284	3.79524	0.03666943	3.61358
3800.00	0.17340	5.76717	6.45367	37.21939	2.93307	4.07949	0.02862694	3.94689
4000.00	0.17053	5.86599	7.03813	41.27149	3.14408	4.35591	0.02250133	4.29830
4200.00	0.16807	5.94997	7.65212	45.52956	3.36588	4.62454	0.01780684	4.66779
4400.00	0.16592	6.02717	8.29572	49.99974	3.59849	4.88543	0.01418720	5.05486
4600.00	0.16404	6.09611	8.96893	54.67560	3.84189	5.13867	0.01137683	5.46004
4800.00	0.16239	6.15815	9.67189	59.56041	4.09610	5.38506	0.00918107	5.88306
5000.00	0.16093	6.21394	10.40464	64.65197	4.36111	5.62426	0.00745426	6.32412
5200.00	0.15963	6.26445	11.16759	69.95254	4.63693	5.85672	0.00608791	6.78302
5400.00	0.15847	6.31025	11.95955	75.46136	4.92355	6.08271	0.00500011	7.25984
5600.00	0.15743	6.35190	12.78125	81.17877	5.22099	6.30249	0.00412895	7.75454
5800.00	0.15650	6.38976	13.63268	87.10460	5.52923	6.51633	0.00342724	8.26726
6000.00	0.15566	6.42440	14.51388	93.23854	5.84829	6.72448	0.00285892	8.79789

T1 = 1000.00 ALPHA = 0.50

UN1	U2/U1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.55258	1.80872	1.28435	2.33206	1.08699	0.07164	0.94056651	0.93465
1200.00	0.43134	2.31837	1.48394	3.44032	1.14685	0.21516	0.82978582	1.01979
1400.00	0.35717	2.79428	1.69962	4.74922	1.21412	0.42960	0.69251172	1.13224
1600.00	0.30958	3.22916	1.94715	6.26575	1.28999	0.68614	0.55607800	1.26500
1800.00	0.27637	3.61833	2.20704	7.98542	1.37494	0.97277	0.43517827	1.41846
2000.00	0.25240	3.96204	2.50118	9.90975	1.46925	1.27807	0.33517015	1.59065
2200.00	0.23450	4.26437	2.82317	12.03981	1.57307	1.59341	0.25593872	1.78078
2400.00	0.22079	4.52926	3.17339	14.37319	1.68651	1.91284	0.19475210	1.98925
2600.00	0.21006	4.76052	3.55212	16.91009	1.80961	2.23230	0.14819049	2.21581
2800.00	0.20129	4.96306	3.95960	19.65179	1.94242	2.54676	0.11305116	2.46028
3000.00	0.19453	5.14050	4.39600	22.59768	2.08497	2.86127	0.08660939	2.72254
3200.00	0.18861	5.29626	4.86147	25.74761	2.23726	3.16556	0.06670633	3.00275
3400.00	0.18435	5.43342	5.35611	29.10196	2.39933	3.46379	0.05168805	3.30070
3600.00	0.18063	5.55469	5.88013	32.66177	2.57117	3.75446	0.04031065	3.61632
3800.00	0.17662	5.66181	6.43428	36.42804	2.75281	4.03744	0.03164535	3.95007
4000.00	0.17370	5.75716	7.01595	40.39196	2.94421	4.31256	0.02501013	4.30174
4200.00	0.17118	5.84179	7.62705	44.56144	3.14541	4.57999	0.01989670	4.67101
4400.00	0.16899	5.91735	8.26965	48.93439	3.35641	4.83981	0.01593210	5.05851
4600.00	0.16708	5.98523	8.94479	53.51264	3.57720	5.09217	0.01283907	5.46375
4800.00	0.16539	6.04617	9.65149	58.29405	3.80779	5.33735	0.01041029	5.88699
5000.00	0.16391	6.10105	10.37177	63.27862	4.04818	5.57559	0.00849122	6.32821
5200.00	0.16256	6.15076	11.13166	68.46629	4.29838	5.80712	0.00696578	6.78723
5400.00	0.16140	6.19576	11.92118	73.86100	4.55838	6.03223	0.00574584	7.26424
5600.00	0.16034	6.23656	12.74033	79.45612	4.82818	6.25119	0.00476454	7.75934
5800.00	0.15939	6.27380	13.58913	85.25545	5.10779	6.46423	0.00397088	8.27233
6000.00	0.15853	6.30778	14.46761	91.25841	5.39720	6.67162	0.00332548	8.80327

T1 = 1000.00 ALPHA = 0.90

UN1	U2/U 1	RHO2/RHO1	T2/T1	P2/P1	M2/M1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.56352	1.77454	1.28437	2.27740	1.07829	0.06636	0.94577470	0.93797
1200.00	0.43928	2.27488	1.47401	3.36228	1.13327	0.20828	0.83947738	1.02256
1400.00	0.36457	2.74295	1.59142	4.64497	1.19496	0.41521	0.70552254	1.13440
1600.00	0.31547	3.16992	1.69739	6.12886	1.26445	0.66796	0.57055327	1.26725
1800.00	0.28159	3.55131	2.19452	7.81117	1.34221	0.95142	0.44965313	1.42110
2000.00	0.257 7	3.88996	2.49286	9.69712	1.42854	1.25346	0.34868290	1.59274
2200.00	0.23883	4.18703	2.41389	11.78187	1.52355	1.56610	0.26829600	1.78299
2400.00	0.22496	4.44724	3.16306	14.06686	1.62736	1.88315	0.20556128	1.99149
2600.00	0.21379	4.67405	3.54 60	16.54894	1.73999	2.20053	0.15745142	2.21839
2800.00	0.20517	4.87400	3.94684	19.23787	1.86152	2.51481	0.12091545	2.46244
3000.00	0.19869	5.04816	4.38492	22.12864	1.99193	2.82456	0.09321197	2.72497
3200.00	0.19227	5.20097	4.84543	25.20350	2.13127	3.12823	0.07222342	3.00541
3400.00	0.18740	5.33606	5.33906	28.46957	2.27955	3.42466	0.05629275	3.30331
3600.00	0.18351	5.45509	5.86535	31.97429	2.43677	3.71413	0.04414822	3.61920
3800.00	0.17994	5.56037	6.41289	35.65804	2.60293	3.99577	0.03464649	3.95309
4000.00	0.17686	5.65400	6.99375	39.54300	2.77805	4.26964	0.02768458	4.30467
4200.00	0.17429	5.73743	7.60397	43.62729	2.96213	4.53585	0.02213667	4.67423
4400.00	0.172 7	5.81166	8.24357	47.90901	3.15519	4.79456	0.01781251	5.06191
4600.00	0.17012	5.87832	8.91263	52.39136	3.35715	5.04587	0.01442224	5.46742
4800.00	0.16850	5.93819	9.61115	57.07282	3.56811	5.29005	0.01174748	5.89089
5000.00	0.16698	5.99210	10.33917	61.95410	3.78804	5.52733	0.00962446	6.33227
5200.00	0.16553	6.04106	11.09671	67.03587	4.01694	5.75794	0.00792936	6.79149
5400.00	0.16413	6.08519	11.88377	72.31803	4.25480	5.98220	0.00656779	7.26888
5600.00	0.16276	6.12537	12.70039	77.79454	4.50163	6.20031	0.00546817	7.76412
5800.00	0.16149	6.16197	13.54657	83.47356	4.75743	6.41254	0.00457519	8.27731
6000.00	0.16141	6.19540	14.42232	89.35210	5.02221	6.61915	0.00384618	8.80846

T1 = 1000.00 ALPHA = 1.00

UN1	UN2/UN1	RHO2/RHO1	T2/T1	P2/P1	H2/H1	(S2-S1)/R	PT2/PT1	(PT2-P2)/P1
1000.00	0.57437	1.74133	1.27729	2.22419	1.07090	0.06143	0.95055756	0.94147
1200.00	0.44786	2.23262	1.47202	3.28670	1.12178	0.19876	0.84869346	1.02538
1400.00	0.37136	2.69282	1.68714	4.54310	1.17875	0.40135	0.71799979	1.13686
1600.00	0.32129	3.11242	1.92857	5.99628	1.24286	0.65024	0.58465916	1.26966
1800.00	0.28670	3.48792	2.19203	7.64562	1.31457	0.93012	0.46405968	1.42303
2000.00	0.26177	3.82019	2.48450	9.49128	1.39415	1.22926	0.36251904	1.59492
2200.00	0.24322	4.11150	2.80455	11.53081	1.48172	1.53959	0.28064895	1.78563
2400.00	0.22854	4.36793	3.15269	13.77078	1.57739	1.85388	0.21648553	1.99381
2600.00	0.21778	4.59189	3.52913	16.20579	1.68120	2.16867	0.16692149	2.22028
2800.00	0.20859	4.78724	3.93409	18.83342	1.79316	2.48142	0.12896364	2.46506
3000.00	0.20156	4.95894	4.36762	21.65975	1.91336	2.78926	0.10002639	2.72745
3200.00	0.19573	5.10920	4.83039	24.67945	2.04175	3.09126	0.07795681	3.00794
3400.00	0.19075	5.24234	5.32301	27.89976	2.17839	3.38629	0.06110726	3.30575
3600.00	0.18680	5.35910	5.84966	31.31141	2.32325	3.67418	0.04818277	3.62198
3800.00	0.18365	5.46285	6.39951	34.92122	2.47637	3.95443	0.03823207	3.95580
4000.00	0.18083	5.55455	6.97153	38.72384	2.63772	4.22713	0.03052630	4.30787
4200.00	0.17741	5.63666	7.57566	42.72556	2.80734	4.49213	0.02452884	4.67749
4400.00	0.17514	5.70960	8.21749	46.92019	2.98521	4.74969	0.01983109	5.06521
4600.00	0.17316	5.77516	8.88445	51.30918	3.17133	4.99998	0.01612961	5.47106
4800.00	0.17141	5.83412	9.58181	55.89561	3.36571	5.24314	0.01319646	5.89462
5000.00	0.16986	5.88714	10.30956	60.67619	3.56835	5.47947	0.01085774	6.33628
5200.00	0.16849	5.93514	11.06774	65.65297	3.77926	5.70918	0.00898243	6.79579
5400.00	0.16726	5.97861	11.84637	70.82486	3.99843	5.93254	0.00747002	7.27329
5600.00	0.16616	6.01812	12.66545	76.19287	4.22586	6.14982	0.00624358	7.76876
5800.00	0.16518	6.05406	13.50499	81.75427	4.46155	6.36125	0.00524371	8.28224
6000.00	0.16429	6.08697	14.37703	87.51247	4.70552	6.56708	0.00442439	8.81362